NP-4050

SERVICE MANUAL
(for 220/240)

REVISION 1 JAN. 1993

Canon
FY8-13BF-010

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I. FEATURES

1. Full range of basic features plus four front-loading cassette holders.
   - The front loading system (4 cassette, maximum of 500 sheets each) enabled a compact design for space saving.
   - As many as 40 copies (A4, horizontal) may be produced for high-speed copying operation.
   - The copies may be reduced or enlarged between 50% and 200% in the zoom mode or produced at eight fixed ratios.
   - The copy paper may be as large as A3 or as small as postcards, and it may be tracing paper or OHP.
   - The machine's duplexing unit is designed compact with the adoption of the *set-back* system.
2. Variety of additional features including an LCD with dialog-type messages.
   - Prompts are given on the display for ease of operation.
   - Dates and times may be displayed.
   - Some of the modes available to enable efficient copying work include the following:
     automatic paper selection, automatic reproduction selection, automatic two-sided/overlay (if A4 or B5, 20 copies continuous; if A3 or B4, 1 copy), two-page separation, binding, frame erasing, photo, zoom program, auto cassette change, pre-heat, ID (25 max.), weekly timer (automatic power-off time), mode memory, etc.
3. Options for full automatic copying work.
   - The machine's new communication system for the RDF, sorter, stapler folder, and other options enables high-speed system operation.

   See "System Configuration."

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II. SPECIFICATIONS

A. System

Item	Description
Copier body	Desk top
Copyboard	Fixed
Light source	Halogen lamp 270 W (100/115V models) 300 W (230V models)
Lens	Zoom lens
Photosensitive medium	OPC

B. Type

Item		Description
Reproduction		Indirect electrophotographic
Charging		Corona
Exposure		Slit (moving light source)
Copy density adjustment		Automatic (AE) or Manual
Development		Dry (toner projection)
Pick-up	Automatic	2 cassettes or 4 cassettes
	Manual	Manual
Transfer		Corona
Separation		Corona (static separation)
Cleaning		Blade
Fixing		Heat roller (880 W)

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C. Performance

Item			Description
Document type			Sheet, Book, 3-D object (2 kg max.)
Document size (max.)			A3 (297 × 420 mm)/LDG (11"× 17")
Reproduction ratio			4R4E (DIRECT; see Table 1-1), 50% to 200% (ZOOM)
Wait time			4 min (approx., 20°C)
First copy			5 sec or less (A4; AE; upper cassette)
Continuous copying			999 (max.)
Copying speed			See Table 1-2.
Copy size			A3/LDG (297 × 431.8 mm; max.) Postcard (100 × 148 mm)
Copy paper type	Cassette		Plain paper (64 to 80 g/m²), Tracing paper, Colored paper*
	Manual		Plain paper (64 to 128 g/m²), Tracing paper, Colored paper*, OHP film*, Commercial postcard*, Label sheet*
	Two-sided/ Overlay copy	Automatic	Plain paper (64 to 80 g/m²), Colored paper*
		Manual	Plain paper (64 to 128 g/m²), Colored paper*, OHP film* (overlay only), Commercial postcard*
Cassette			Clawless, Front loading; 54 mm deep (about 500 sheets of 80 g/m²)
Copy tray			100 sheets (approx.; 80 g/m²)
Non-image width			2.5 ± 1.5 mm (leading edge; one-sided), 2.0 ±1.0 mm (left/right; one-sided, two-sided, overlay), 2.5 ± 2.0 mm (leading edge; two-sided, overlay)
Auto clear			Available (2 min standard; may be varied between 1 and 9 min in 1-min increments; may be disabled)
Auto shut-off			Available (2 hr standard; may be disabled)
Weekly shut-off			Available (set in 1-min increments)
Option			RDF-B1, Stapler Sorter-A1, Auto Stapler Folder-A1, Auto Stapler-A1, CCV, Sorter-A1, Sorter-B1**, CCV, Cassette Feeding Unit-D1, Paper Deck Pedestal-D1

* Of a type recommended by Canon.
** No tandem configuration.

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D. Others

Item		Description	
Operating environment	Temperature	15° to 30°C	
	Humidity	5% to 80%	
	Atmospheric pressure	0.6 to 1 atm	
Power source		Serial No.	
	220V 50 Hz	PAF xxxxx PDV xxxxx	
	240V 50 Hz	QAB xxxxx QDV xxxxx	
	240V 50 Hz	RAE xxxxx RDV xxxxx	
	220V 50 Hz	SAB xxxxx SDV xxxxx	
	220V 50 Hz	TAB xxxxx TDV xxxxx	
	220V 50 Hz	UAD xxxxx UDV xxxxx	
Power consumption	Maximum	1.5 kW or less	
	Standby	0.171 kWh (approx., average; reference only)	
	Continuous copying	1.084 kWh (approx., average; A4; reference only)	
Noise	Copying	71 dB or less	(sound power level as prescribed by ISO)
	Standby	As prescribed by ISO (50 dB or less)	
Ozone (average over 8 hr)		0.1 ppm or less	
Dimensions	Width	760 mm	
	Depth	690 mm	
	Height	623 mm*, 958 mm**	
Weight		92 kg* (approx.)	
		124 kg** (approx.)	
Consumables	Copy paper	Keep wrapped to protect against humidity.	
	Toner	Avoid direct sunlight; keep it under 40°C, 85%.	

* Copyboard type, including 2 cassettes.
** Copyboard type, including 4 cassettes.

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DIRECT	REDUCE	ENLARGE
1:1 (±0.5%)	1:0.500 1:0.707 1:0.816 1:0.865	1:1.154 1:1.224 1:1.414 1:2.000
	1:0.500 1:0.707	1:1.414 1:2.000

Table 1-1 Fixed Reproduction Ratios

Reproduction ratio		Copy size	Copies/min
DIRECT	1:1 (±0.5%)	A3 (297 × 420 mm)	23
		A4 (210 × 297 mm)	40
		B4 (257 × 364 mm)	26
		B5 (182 × 257 mm)	40
REDUCE	1:0.707 (±1.0%)	A3 → A4R	29
		B4→ B5R	33
	1:0.816 (±1.0%)	B4 → A4R	30
	1:0.865 (±1.0%)	A3 → B4	25
		A4 → B5	40
ENLARGE	1:1.414 (±1.0%)	A4R → A3	23
		B5R → B4	26
	1:1.224 (±1.0%)	A4R → B4	26
	1:1.154 (±1.0%)	B4 → A3	23
		B5 → A4	40

Table 1-2 Copying Speeds

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E. Cassette Feeding Unit

Type of copy paper	As per copier.
Cassette	As per copier.
Power supply	24 VDC (from copier)
Dimensions	700 (W) x 575 (D) x 337 (H) mm
Weight	27 kg

F. Paper Deck Pedestal

Type of copy paper	A4, B5, LTR (plain paper, 64 to 80 g/m², colored paper*)
Deck	No claw, Front loading; 162 mm deep (max; about 1500 sheets of 80g/m²)
Power supply	24 VDC (from copier)
Dimensions	702.5 (W) x 575 (D) x 335.4 (H) mm
Weight	42 kg

* Of a type recommended by Canon.

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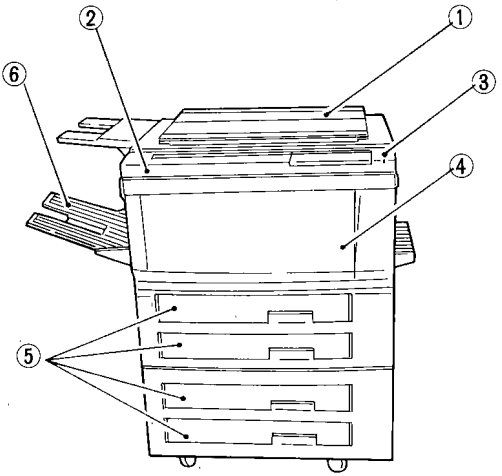
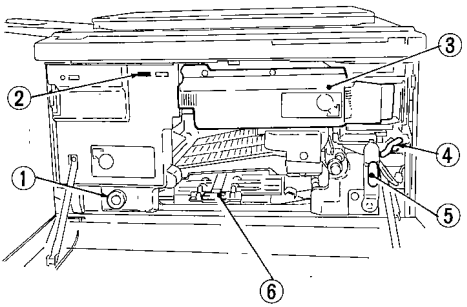
III. NAMES OF PARTS

A. Exteriors



① Copyboard cover
② Control panel
③ Power switch
④ Front door
⑤ Cassette
⑥ Copy tray

Figure 1-1



① Fixing assembly knob
② Total copy counter
③ Hopper
④ Lock lever (developing assembly)
⑤ Feeder assembly release lever
⑥ Lower feeder lever

Figure 1-2

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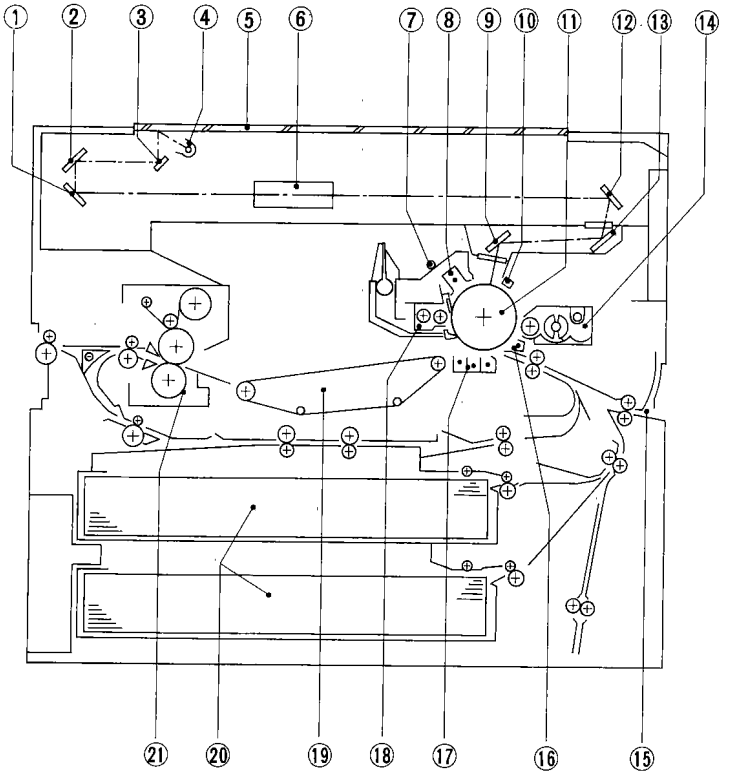
B. Cross Section

1. Copier Body



① No. 3 mirror
② No. 2 mirror
③ No. 1 mirror
④ Scanning lamp
⑤ Copyboard glass
⑥ Zoom lens
⑦ Pre-exposure lamp
⑧ Primary corona assembly
⑨ No. 6 mirror
⑩ Blank exposure lamp
⑪ Photosensitive drum
⑫ No. 4 mirror
⑬ No. 5 mirror
⑭ Black developing assembly
⑮ Manual feed assembly
⑯ Pre-transfer corona assembly
⑰ Transfer/Separation corona assembly
⑱ Drum cleaning assembly
⑲ Feeder assembly
⑳ Cassette
㉑ Fixing assembly

Figure 1-3 Cross Section of Copier Body

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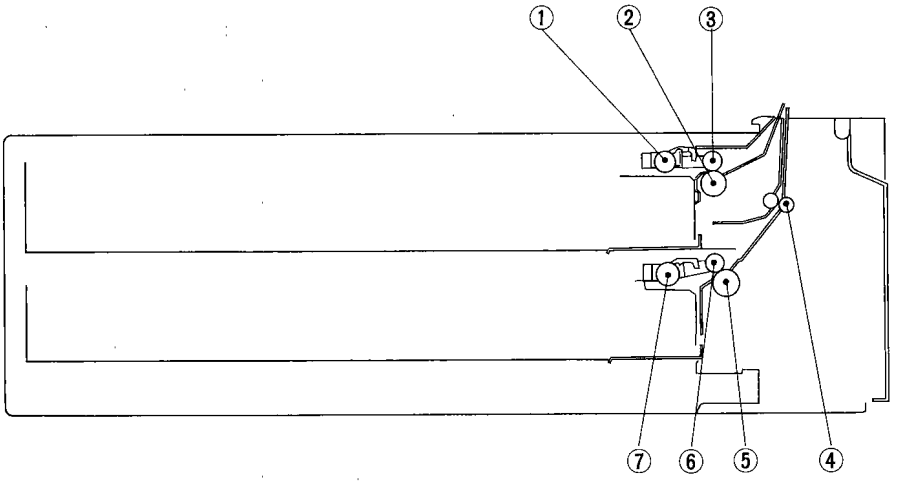
2. Cassette Feeding Unit (3rd/4th cassette)



① Cassette 3 pick-up roller
② Cassette 3 separation roller
③ Cassette 3 feeder roller
④ No. 4 registration roller
⑤ Cassette 4 separation roller
⑥ Cassette 4 feeder roller
⑦ Cassette,4 pick-up roller

Figure 1-4 Cross Section of Cassette Feeding Unit (3rd/4th cassette)

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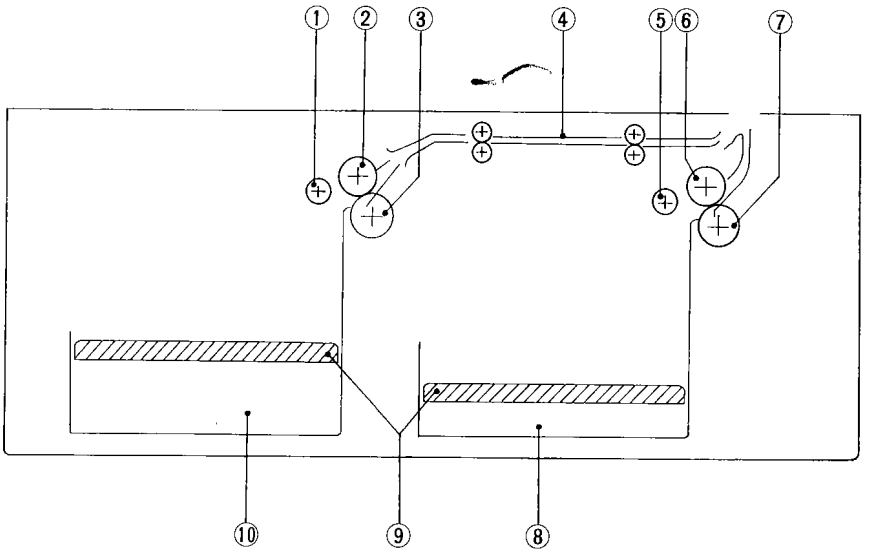
3. Paper Deck Pedestal



① Left pick-up roller
② Left feeder roller
③ Left separation roller
④ Left feeder assembly
⑤ Right Pick-up roller
⑥ Right feeder roller
⑦ Right separation roller
⑧ Right deck
⑨ Lifter
⑩ Left deck

Figure 1-5 Cross Section of Paper Deck Pedestal

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IV. OPERATION

A. Control Panel

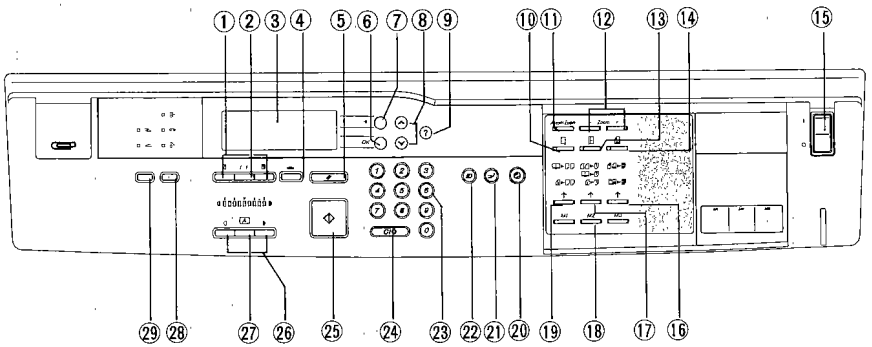

Figure 1-6

① REDUCE/ENLARGE key
② DIRECT key
③ Message display
④ PAPER SELECT key
⑤ RESET key
Standard Mode
reproduction ratio: 100%
paper selection: auto
copy count: 1
copy color: black
density: AE
⑥ OK key
⑦ ASTERISK key
⑧ SCROLL key
⑨ GUIDE key
⑩ ERASE key
- sheet
- document

⑪ AUTO ZOOM key
⑫ ZOOM key
⑬ MARGIN key
⑭ PHOTO key
⑮ POWER switch
⑯ OVERLAY MODE key
⑰ TWO-SIDED MODE key
⑱ COPY MODE MEMO key
⑲ TWO-PAGE SEPARATION MODE key
⑳ STANDBY key
- when ON, the control panel indicators go OFF; at the same time, the fixing temperature is controlled to 10°C lower than when in standby.

㉑ INTERRUPT key
- stops continuous copying operation; effective for a single copy only.

㉒ ID key
㉓ NUMBER keys
㉔ CLEAR/STOP key
㉕ COPY START key
㉖ COPY DENSITY key
- normally, in 9 steps.
- may be set to 17 steps (service mode).

㉗ AE key
㉘ SORT/STAPLE/GROUP key
㉙ FOLD key

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B. Making Copies

1) Press the POWER switch to the 'ON' position.
   - The WAIT indicator starts to glow green when the temperature of the fixing assembly reaches a specific value.
   - Normally, the wait time is about 4 min (at 20°C ambient temperature).
2) Lift the copyboard cover, and place the document face down along the size index.
3) Press the DIRECT, REDUCE, ENLARGE, or ZOOM key to suit the size of the copy paper.
4) Select the cassette holder if to specify the size of copy paper.
   - Replace the cassette if necessary.
5) Press the COPY DENSITY key to suit the density of the document.
   - For a darker copy, press the *darker* key, thereby moving the index to the right; for a lighter copy, press the *lighter* key to move the index to the left.

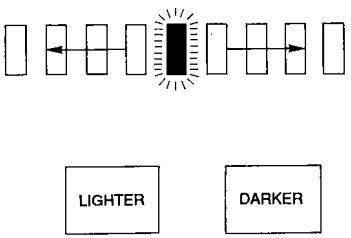

Figure 1-7

6) Enter the number of copies to make (1 to 999) using the numeric keypad, and check the input on the copy count display.
   - If the numeric keypad does not work or if a mistake is made, press the CLEAR/STOP key and re-enter the count.
7) Press the COPY START key.
   - The machine has an auto start mode.
   - If the RDF is attached, the documents on the document tray are picked up automatically and copying operation starts.
   - Copies are made in the specified number.
   - Except for the CLEAR/STOP and INTERRUPT keys, all other keys are disabled between the first and last copies.
   - The automatic density adjustment mechanism may be switched over to manual density adjustment between the first and the last copies; the manual density adjustment mechanism, however, cannot be switched over to automatic density adjustment.

Note:
If the copies are too dark or too light in the AE mode, press the COPY DENSITY key to make adjustments while referring to copies made in the AE mode.

   - To stop continuous copying operation, press the CLEAR/STOP key or the RESET key.
   - To stop continuous copying operation, press the CLEAR/STOP key or the RESET key; the copying operation will stop after finishing the on-going copy run.
   - The copy count display after each copying operation indicates the initial setting. If the ADD PAPER indicator goes ON and the copying operation stops in the middle of copying operation, the remaining number of copies will be made automatically when the COPY START key is pressed after adding paper.
   - If a jam occurs in the middle of copying operation, the JAM message is indicated on the message display and copying operation stops. When the jam is removed, the copy count display shows the remaining number of copies.
   - The machine returns to the standard mode if left alone for about 2 min* after copying operation or key operation.
     Variable. (→ 8 → OK)

Note:
i. Feed postcards vertically.
ii. Feed A4 label sheet horizontally.

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C. Auto Start Mode

The auto start mode may be activated while the copier is in the following wait states: during the wait period after power-on, during the wait period after deactivation of the pre-heat mode, and during the cleaning operation of the wire.

Set the documents during the wait period, set the copy modes, and press the COPY START key.

The WAIT indicator will change from green to orange to indicate that the auto start mode has been activated; no interrupt command will be accepted.

Copying operation will start automatically using the pre-selected copy modes as soon as the copier enters the standby mode.

The automatic start mode may be deactivated using the CLEAR/STOP key or the RESET key.

D. Making Two-Sided/Overlay Copies Manually

Two-sided or overlay copies may be made manually; note the following:

i. Orient the copy correctly; i.e., turn over the copy without changing its rear/front orientation.
ii. Make sure that the paper is not moist.
iii. Make sure that the paper is not curled.
iv. Cool the copy sufficiently after first copy run, and correct the curl, if any, before the second copy run (OHP film, in particular).
v. Use paper of 60 to 120g/m².

E. Storing the ID Mode

As many as 25 4-digit ID numbers may be stored; copies may be made only in response to any of the stored numbers, and an accumulative count of copies under each number may also be obtained.

■ Registering an ID No.

1) Press the ✳, ID, AUTO ZOOM, and ✳ keys in sequence.

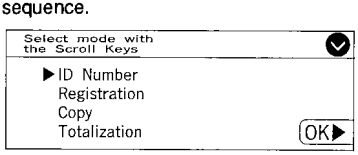

Figure 1-8

2) Press the OK key.
3) Enter an ID No. using the numeric keypad.

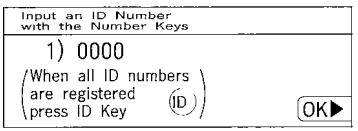

Figure 1-9

4) Press the OK key; advance the group No., and enter another ID No. Repeat the operation as necessary.
5) Press the ID key to store all ID Nos.

■ Controlling the Copy Volume

An accumulative count of copies made under each ID No. may be obtained as follows:

1) Press the ✳, ID, AUTO ZOOM, ✳, and ▽ keys in sequence.
2) Select Display Totals, and press the OK key.
3) Select Display Totals or Clear All Totals, and press the OK key.

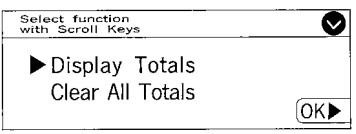

Figure 1-10

4) Press the ▽ key to bring up the desired group and count.

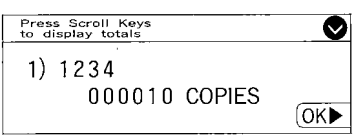

Figure 1-11

5) Press the OK key to return to the standard screen.

Note:
The counts cannot be returned to '0' by on an individual basis; selecting the 'COUNT ALL CLEAR' and pressing the OK key will cause all counts to '0'.

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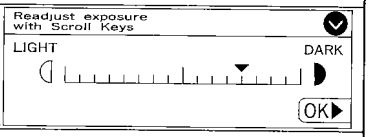
F. Using the Asterisk (User) Mode

The machine is equipped with the asterisk (user) mode, by which the user can store settings of his or her choice.

<table>
<tr><th>Key operation</th><th>Description</th><th>Remarks</th></tr>
<tr><td>[*]→[1]→[OK]</td><td>• Mode Memory
As many as three copy modes may be stored for use in the future.</td><td>1) Press the desired copy mode keys.
2) Press the * key.
3) Select 'STORE MODE MEMORY'.
4) Press the COPY MODE MEMO key (M1, M2, or M3).
5) Press the OK key.</td></tr>
<tr><td>[*]→[2]→[OK]</td><td>• ZOOM Program
Enter the size of the document and the desired size of copies; the mechanism will select the best reproduction ratio automatically.</td><td>If the result of computation is 50% or less, 50% will be selected; if 200% or more, 200% will be selected.</td></tr>
<tr><td>[*]→[3]→[OK]</td><td>• Left/Right Margin
For the margin mode, the position of the binding margin may be specified in terms of priority; in the two-page separation mode, the page orientation may be specified in terms of left or right page.</td><td><table><tr><td></td><td>Left binding</td><td>Right binding</td></tr><tr><td>Binding margin</td><td>Left binding margin</td><td>Right binding margin</td></tr><tr><td>Two-Page separation</td><td>Left page first</td><td>Right page first</td></tr></table>Normally, left binding is selected.</td></tr>
<tr><td>[*]→[4]→[OK]</td><td>• Auto Original Counting
When setting documents on the RDF and making two-sided copies from a multiple number of one-sided documents, the documents are counted first before copying operation so that the last page of the documents will be copied as if in the one-sided copy mode; this mechanism may be disabled.</td><td></td></tr>
<tr><td>[*]→[5]→[OK]</td><td>• Exposure Recalibration
If the copies are too dark or too light after density adjustment, this mode enables finer adjustment.</td><td> 
</td></tr>
<tr><td>[*]→[6]→[OK]</td><td>• Cleaning the Corona Wires
Using this mode, it is possible to have the machine clean the primary, transfer, and separation corona wires automatically.</td><td></td></tr>
</table>

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Key operation	Description	Remarks
[*]→[7]→[OK]	• Feeder Cleaning (RDF) Set 10 blank sheets of copy paper on the feeder tray, and press the OK key. Feed the sheets in the 'two-sided to one-sided' mode to clean the separation belt and the feeder roller.	
[*]→[8]→[OK]	• Setting the Auto-Clear Time The auto-clear time may be set between 1 and 9 min in 1-min increments. Setting the time to 0 min disables the mechanism.	The auto-clear time is set to 2 min when the copier is shipped from the factory.
[*]→[9]→[OK]	• Auto Shut-Off Time Set The auto shut-off time may be set for each day of the week; setting the time to '00:00' disables the mechanism, and any wrong setting also disables the mechanism.	Set times with Number & Scroll Keys (MON) 16:00 (TUE) 00:00 (WED) 00:00 (THU) 00:00 (FRI) 00:00 (SAT) 00:00 (SUN) 00:00 OK▶
[*]→[10]→[OK]	• Setting the Date and the Time With this mode, the year, month, day, and time stored in the built-in clock may be adjusted.	

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V. WARNINGS AND CORRECTIONS

A. JAM Message

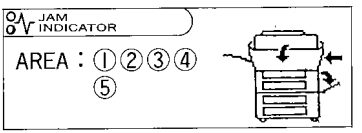

Figure 1-12

The message comes on in response to a jam in the machine; remove the jam as described below.

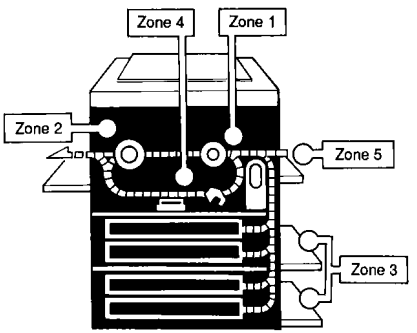

Figure 1-13

1. Removing Jam from Area 1

1) Turn the feeder assembly release lever counterclockwise, and remove the copy paper.

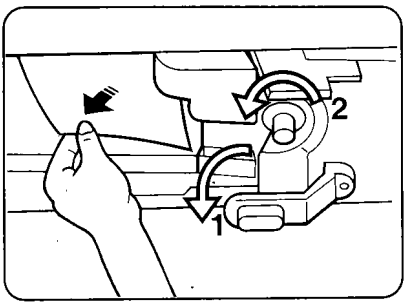

Figure 1-14

2. Removing Jam from Area 2

1) Shift the lower feeder lever up, and remove the copy paper.
2) Detach the copy tray, and open the delivery door. If the paper is trapped in the fixing assembly, turn the fixing assembly knob counterclockwise, and remove the jam.

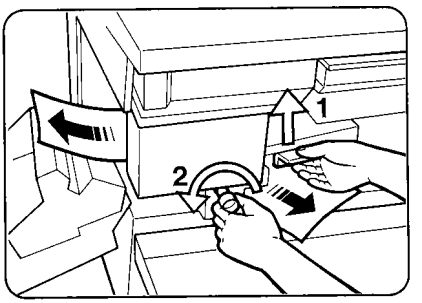

Figure 1-15

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3. Removing Jam from Area 3

1) Open the upper right door or lower right door of the cassette assembly, and remove the copy paper. If the copy paper cannot be removed, slide out the cassette, and remove the paper.

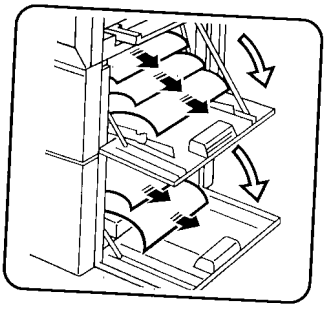

Figure 1-16

4. Removing Jam from Area 4

1) Lift the lever of the lower feeder assembly, and remove the copy paper.

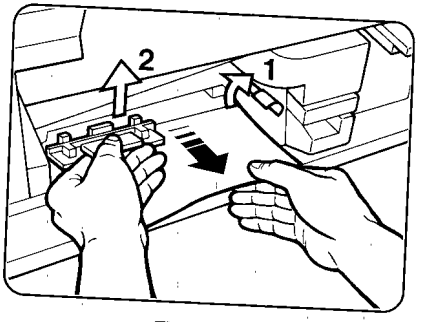

Figure 1-17

5. Removing Jam from Area 5

1) Lift the manual feed tray cover, and remove the copy paper.

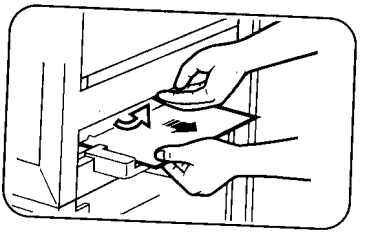

Figure 1-18

6. Jam in Paper Deck Pedestal

1) Open the copier's front door.
2) Open the lower right door of the deck assembly.

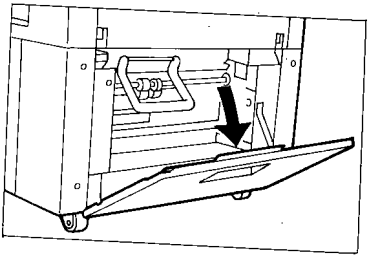

Figure 1-19

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3) Bring down the green grip, and remove the jam.

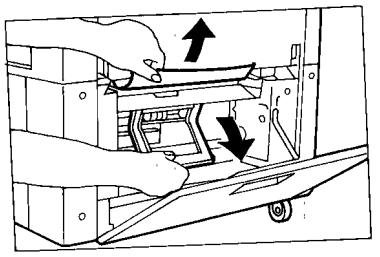

Figure 1-20

4) Slide out the right deck, and remove the jam.

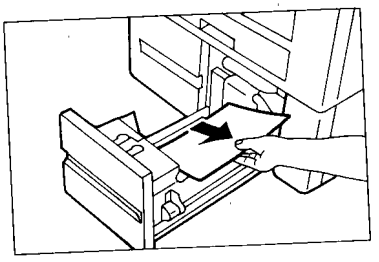

Figure 1-21

5) Slide out the left deck, and remove the jam.

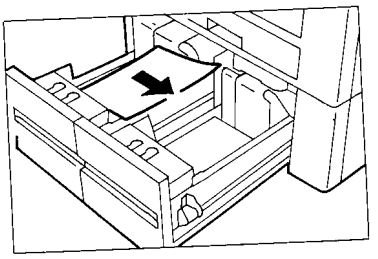

Figure 1-22

6) Hold the grip of the left feeder assembly, and slide the assembly until it stops.

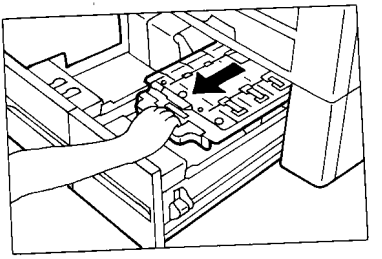

Figure 1-23

7) Bring up the knob on the left feeder assembly, and remove the jam.

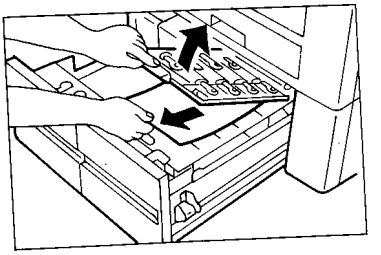

Figure 1-24

8) Slide the left feeder assembly and the left/right deck into their original positions.
9) Close the lower right door of the deck assembly.
10) Close the copier's front door.

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B. ADD Paper Message

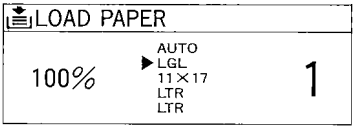

Figure 1-25

The message comes on when the cassette is running out of paper; perform the following steps:

1. Pick-Up from Cassette

1) Hold the grip of the selected cassette, and slide the cassette to the front as far as it moves.
2) Set copy paper in the cassette; keep the face next to the seem facing down.

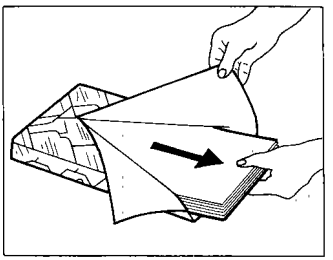

Figure 1-26

3) Place the copy paper on the lifting plate of the cassette, and keep the leading edges of the sheets together.

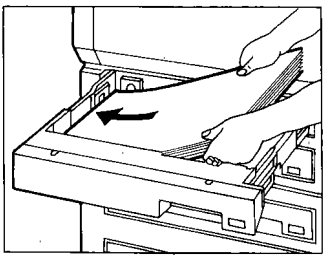

Figure 1-27

4) Set the cassette in the machine.

2. Adding Paper to the Paper Deck Pedestal

1) Hold the grip on the paper deck, and slide the deck to the front until it stops.

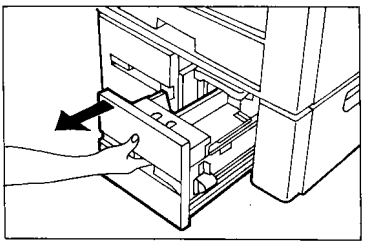

Figure 1-28

2) Take out copy paper from its package, and set it in the deck.

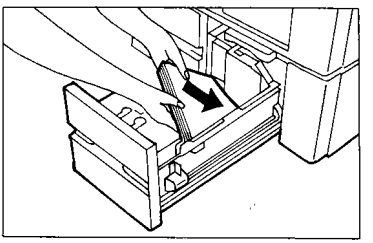

Figure 1-29

3) Slide the deck back into its original position.

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C. ADD Toner Message

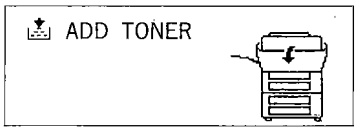

Figure 1-30

The message comes on when the toner is running out; perform the following steps:

1) Open the front door.
2) Slide the hopper unit to the front.

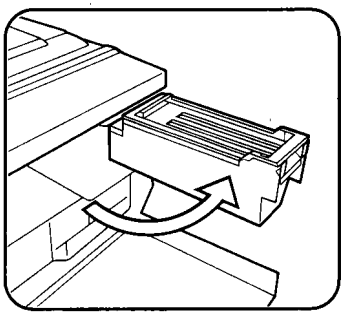

Figure 1-31

3) Shake the toner cartridge back and forth about several times.

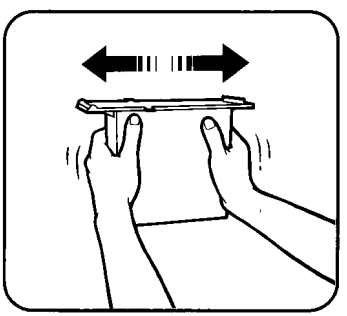

Figure 1-32

4) Fit the boss of the toner cartridge into the groove along the rear of the hopper unit; listen for a click.

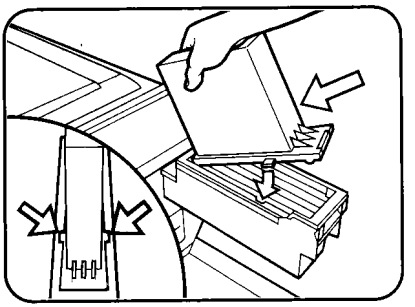

Figure 1-33

5) Hold the cartridge, and pull the hopper grip (identified by a gray seal) to the front until the seal stopper comes into view.

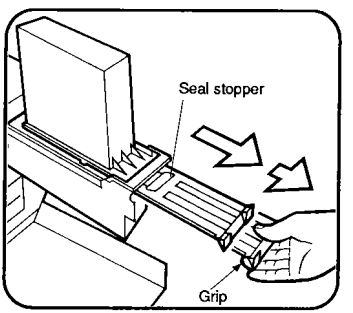

Figure 1-34

6) Hold the cartridge grip, and pull it to the front unitl it stops.

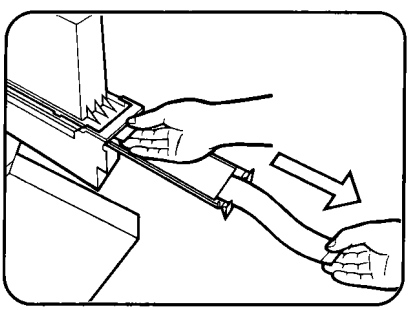

Figure 1-35

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7) Tap on the top of the toner cartridge lightly until all toner inside the toner cartridge has dropped into the hopper unit.
8) Push the hopper grip to the rear until the toner cartridge becomes unlocked.
9) Lift the front of the toner cartridge, and detach the seal stopper from the hopper carefully.
10) Set the hopper unit to the machine.
11) Close the front door.

Note:
For black toner used at time of installation, see CHAPTER 5.

VI. ROUTINE MAINTENANCE BY THE USER

Advise the user to clean the following at least once a week.

1. ***Copyboard Glass***
   Clean it with a moist cloth; then, dry wipe it.

2. ***Copyboard Cover***
   Clean it using mild detergent solution; then, dry wipe it.

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I. IMAGE FORMATION

A. Outline

The NP-4050 is an electrophotographic copier constructed as shown in Figure 2-1.

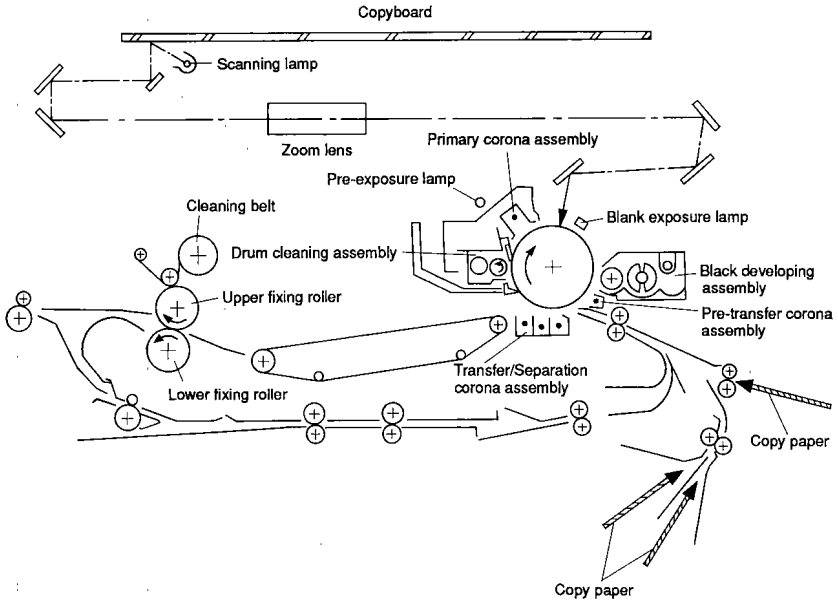

Figure 2-1

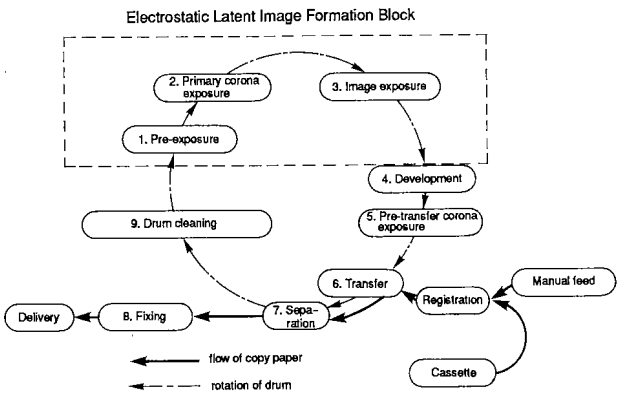

Figure 2-2

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The following nine steps are involved in producing images:

Step 1 Pre-exposure
Step 2 Primary corona exposure (negative DC)
Step 3 Image exposure
Step 4 Development (AC + negative DC)
Step 5 Pre-transfer corona exposure (AC + positive DC)
Step 6 Transfer (negative DC)
Step 7 Separation (AC + positive DC)
Step 8 Fixing
Step 9 Drum cleaning

The photosensitive drum consists of two layers; the outer layer is a photoconductive layer made of OPC and the inner layer, a conductive core of aluminum.

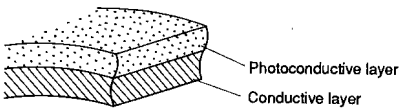

Figure 2-3

B. Electrostatic Latent Image Formation Block

This block consists of three steps during which the negative charges in the areas of the drum surface corresponding to the dark areas of the document are left as they are while those corresponding to the light areas of the document are rid of the negative charges, thereby forming an electrostatic image on the drum surface.
These electrostatic images on the drum surface are not visible to the human eye and, therefore, are called *electrostatic latent images.*

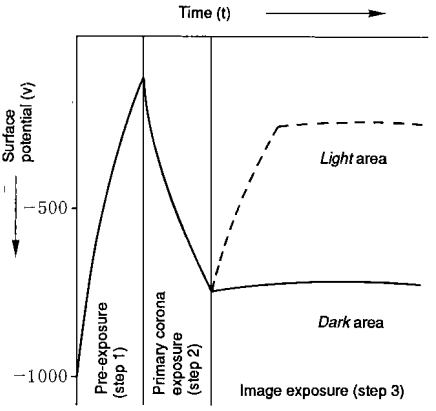

Figure 2-4

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C. Step 1 Pre-Exposure

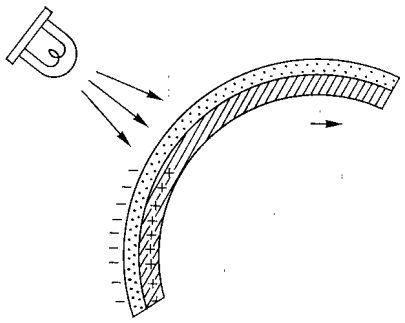

Figure 2-5

Pre-exposure eliminates the residual charges on the drum to prepare for primary corona exposure, thereby ensuring even copy density.

D. Step 2 Primary Corona Exposure

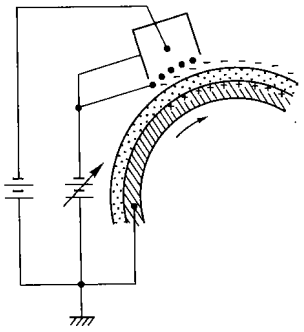

Figure 2-6

Primary corona exposure charges the drum surface to a uniform negative potential.

The surface potential of the drum is dependent on the potential of the grid; and, to ensure stable surface potential of the drum, a bias is applied to the grid. A voltage equal to that of the grid bias is applied to the shield plate to ensure correct corona discharge from the primary corona assembly.

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E. Step 3 Image Exposure

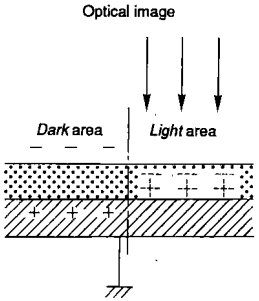

Figure 2-7

The optical image of the document is projected on the drum surface to neutralize the charges in the *light* areas.

F. Step 4 Development

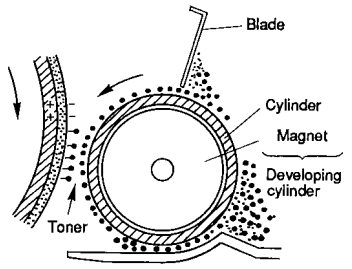

Figure 2-8

As shown in Figure 2-8, the developing assembly consists of a developing cylinder and a magnetic blade; the developing cylinder is made up of a fixed magnet and a cylinder which rotates around the magnet.

The toner (developer) used for the machine is a single-component type, consisting mainly of magnetite and resin. The toner has an insulating characteristic and is charged to a positive potential by friction against the rotating cylinder.

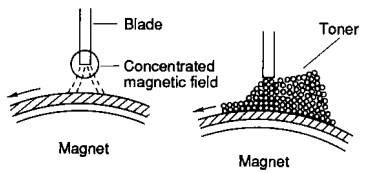

Figure 2-9

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A concentrated magnetic filed develops between the magnet and the tip of the blade, attracting the magnetized toner.

Once inside the magnetic field, the toner becomes virtually immobile because of the strong attraction to the blade.

The toner is then deposited on the cylinder in a thin, even layer.

An AC bias and a DC bias (negative component) are simultaneously applied to the developing cylinder and the blade and, since the negative component is greater than the positive component at any given time, they provide a developing bias.

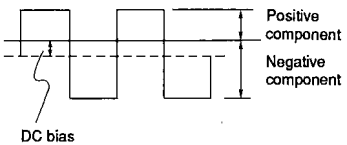

Figure 2-10

During copying operation, the toner is attracted to the photosensitive drum because of the drum surface potential and the development bias (positive component), thereby turning the electrostatic latent image into a visible image. Excess toner is then repelled by the photosensitive drum by the work of the drum surface potential and the development bias (negative component).

An AC bias, frequency in particular, mostly affects gradation; a lower frequency improves gradation but, at the same time, may fog the image. A DC bias affects the copy density and, therefore, can cause fogging; a higher DC bias, i.e., closer to 0 V, darkens the image but, on the other hand, can fog the image.

G. Step 5 Pre-Transfer Corona Exposure

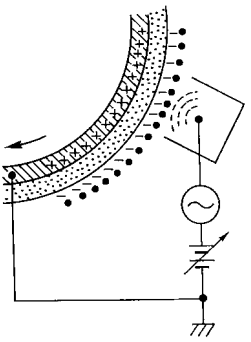

Figure 2-11

The AC corona from the pre-transfer corona assembly, together with a DC bias, increases and optimizes the charge on the toner on the drum surface. The increase improves the transfer and facilitates the separation of the copy paper at the same time.

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H. Step 6 Transfer

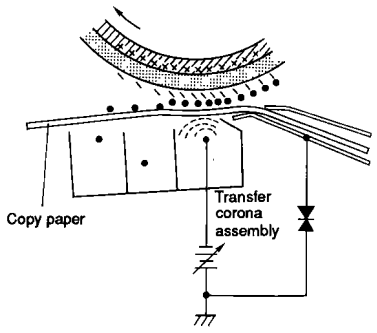

Figure 2-12

A negative corona charge is applied to the back of the copy paper, causing the toner on the drum to move to the copy paper.

The transfer guide is grounded through a varistor to prevent soiling of the back of the copy paper or poor transfer.

Note:
Direct grounding of the transfer guide would let the charges needed on the back of the copy paper to escape, leading to poor transfer; if not grounded, on the other hand, the transfer guide would be charged, attracting toner particles and, consequently soiling the back of the paper.

Copy paper coming out of the fixing assembly is dry and has a high resistance. For this reason, in the automatic two-sided or overlay copying, the use of the same transfer corona output for both first and second sides of copy paper would cause faulty separation.

To prevent such a problem, the transfer corona output for the second side is lowered than for the first side.

I. Step 7 Separation

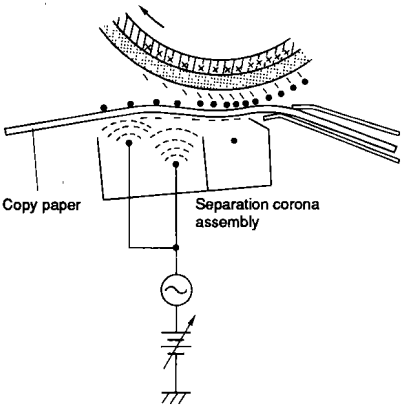

Figure 2-13

The copy paper is charged to a negative potential by the transfer corona and is statically attracted to the surface of the photosensitive drum. To separate the copy paper, the attraction between the drum and the paper is broken by an AC corona charge with a DC bias.

Copy paper coming out of the fixing assembly is dry, has a high resistance, and tends to curl. For this reason, in the automatic two-sided or overlay copying, the use of the same separation corona output for both first and second sides of copy paper would cause faulty separation.

To prevent such a problem, the positive DC component of the separation corona output for the second side is lowered than for the first side.

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J. Step 8 Fixing

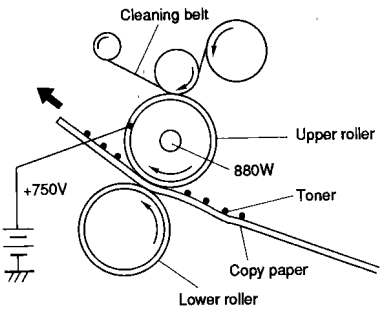

Figure 2-14

After transfer, the copy paper is moved through a pair of heat rollers, during which the toner image is fused into the fibers of the paper.

To prevent jams and toner offset, the upper fixing roller is kept in contact, at two points, with the cleaning belt impregnated with silicone oil.

The take-up mechanism moves the belt so that it is supplied with oil and cleans the upper roller while changing its point of contact.

Further, to ensure a constant voltage, the upper fixing roller is given a positive DC bias, thereby preventing toner offset.

K. Step 9 Drum Cleaning

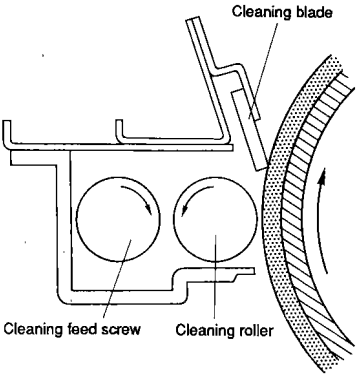

Figure 2-15

The cleaning blade scrapes the residual toner off the drum surface in preparation for the next copy run, ensuring reproduction of crisp images.

The toner scraped by the cleaning blade is sent to the front of the machine by the cleaning feed screw for collection inside the drum.

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II. AUXILIARY PROCESSES

1. Separation Claw

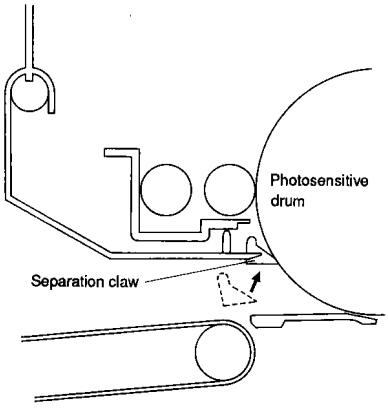

Figure 2-16

Copy paper, if not separated from the photosensitive drum because of faulty pre-transfer or faulty separation corona exposure, tends to move into the drum cleaning assembly. To prevent the problem, the bottom of the drum cleaning assembly is equipped with separation claws to force the paper off the drum.

2. Ozone Filter

The exhaust fan assembly and the feeder fan assembly are equipped with a filter to prevent leakage of ozone occurring in the corona assemblies.

3. Static Eliminator

The outlet of the delivery assembly is equipped with a static eliminator consisting of a grounded brush to remove the residual charges.

4. Blank Exposure Lamp

The blank exposure lamp (LEDs) goes ON when the drum is rotating and the scanner is moving forward without exposing the document; this is to eliminate the charges in the non-imaging areas of the drum surface, thereby preventing adhesion of unwanted toner.

The lamp goes ON also to blank out the non-imaging areas that are varied to suit different reproduction ratios and paper widths.

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I. FUNDAMENTALS OF OPERATION

A. Basic Construction

The operating mechanisms of the machine can be divided into four main blocks; i.e., pick-up/feeder system, exposure system, image formation system, and control system.

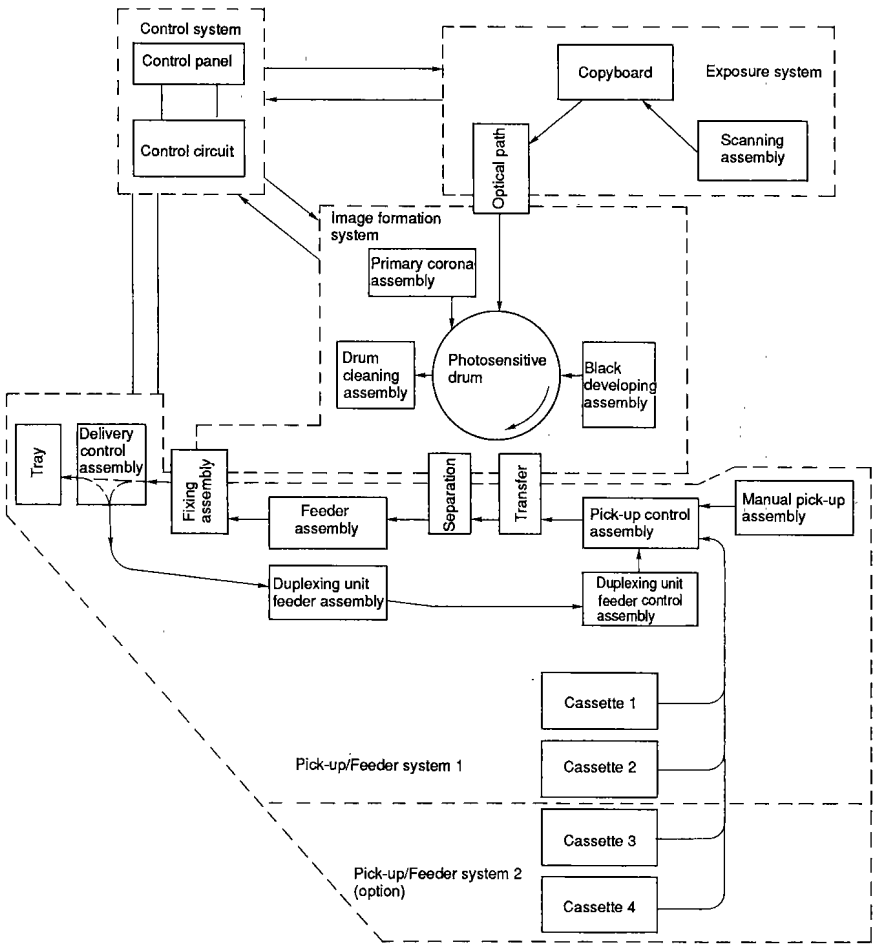

Figure 3-1

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B. Electrical Circuitry

The machine is controlled by two microprocessors and five LSIs on the DC controller PCB. The functions of each of these ICs are as shown below:

Microprocessors

Q223 (main CPU)
- Controls the copying sequence

Q221 (sub CPU)
- Controls the stepping motor
- Reads in analog signals

LSIs

Q176 (D/A converter)
- Outputs image formation control signal

Q215 (LCDC)
- Controls liquid crystal display

Q199 (IPC)
- Controls serial communication with RDF and sorter

Q207 (calendar IC)
- Controls the calendar

Q212 (gate array)
- Controls CPU bus
- Turns PCBs ON and OFF
- Serves as dual port RAM

Gate array (Q212) connected to the main CPU (Q223) and the sub CPU (Q221) is equipped with a built-in dual port RAM that can read or write information from both main and sub CPUs.

The calendar IC (Q207) and the RAM (Q217) are backed up by a lithium battery (BAT101).

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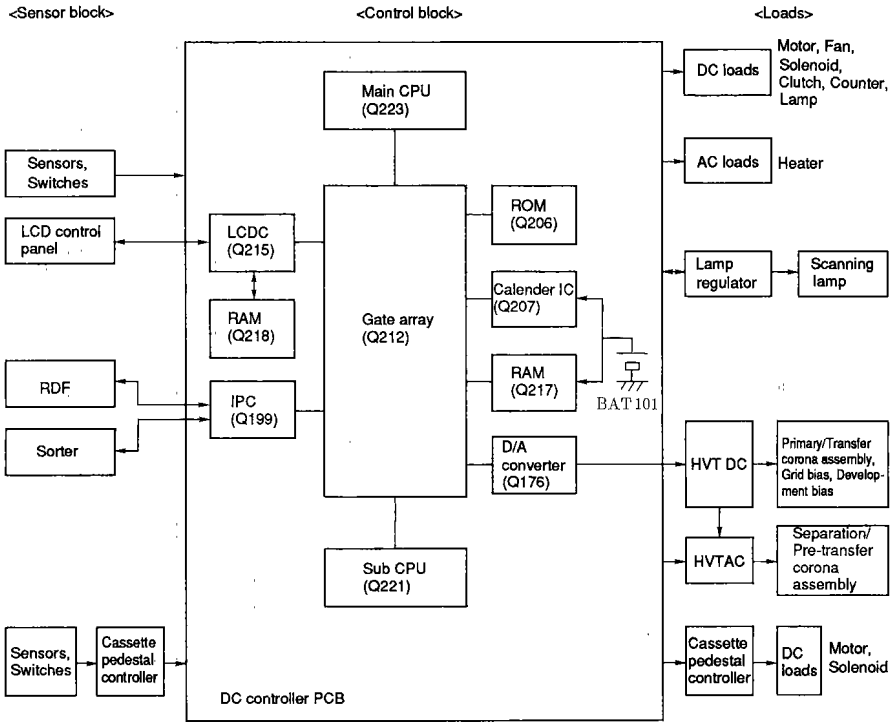

Figure 3-2

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C. Inputs to DC Controller

1. Inputs to DC Controller (1/3)

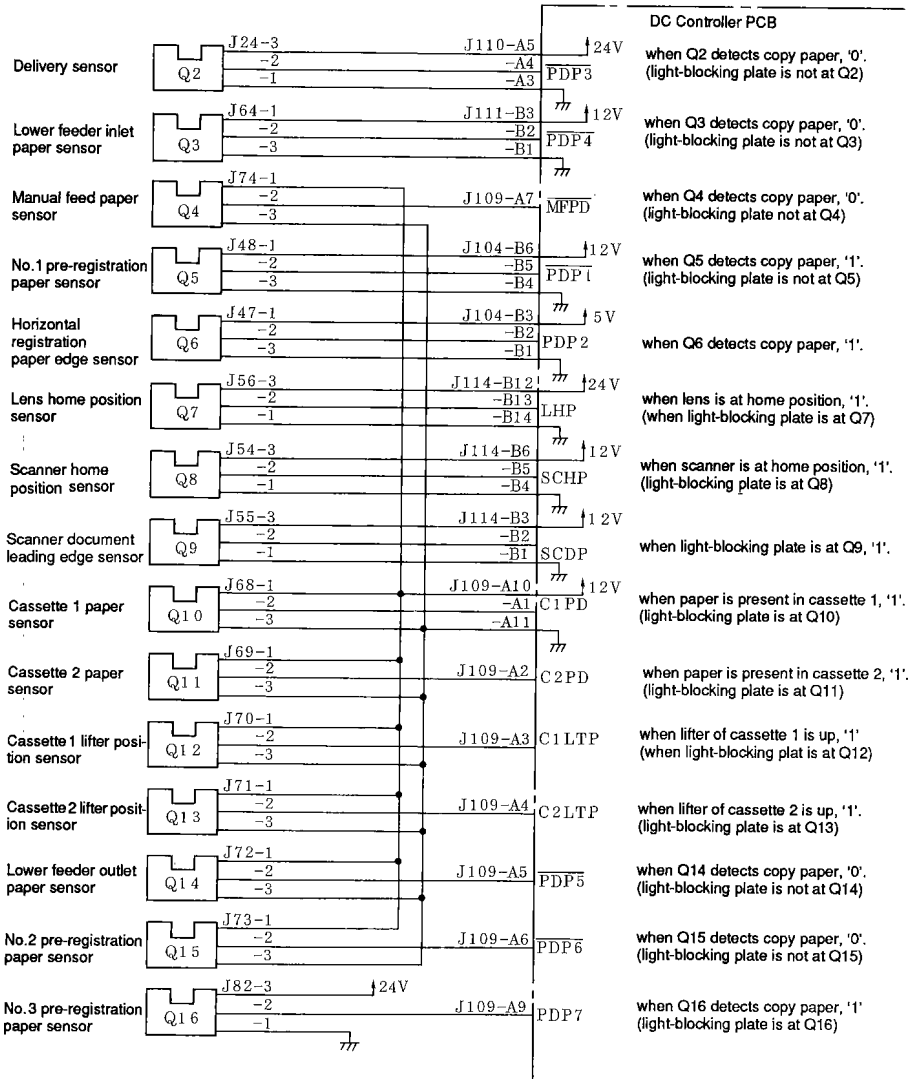

Figure 3-3

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2. Inputs to DC Controller (2/3)

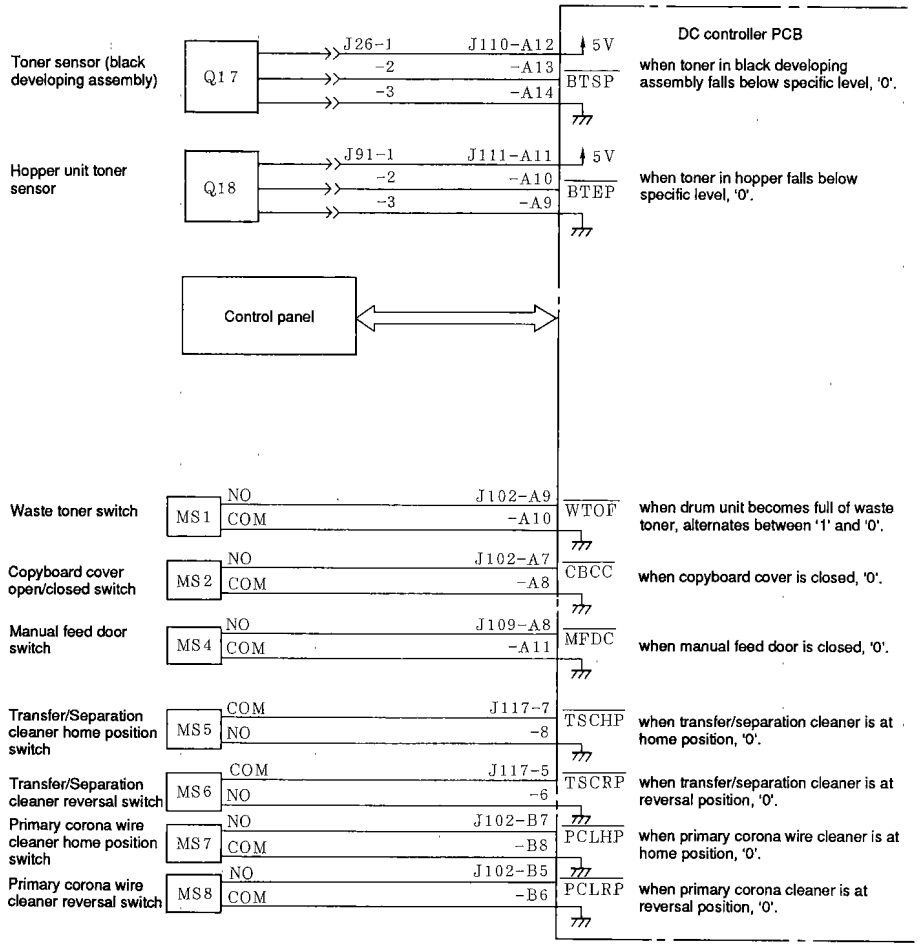

Figure 3-4

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3. Inputs to DC Controller (3/3)

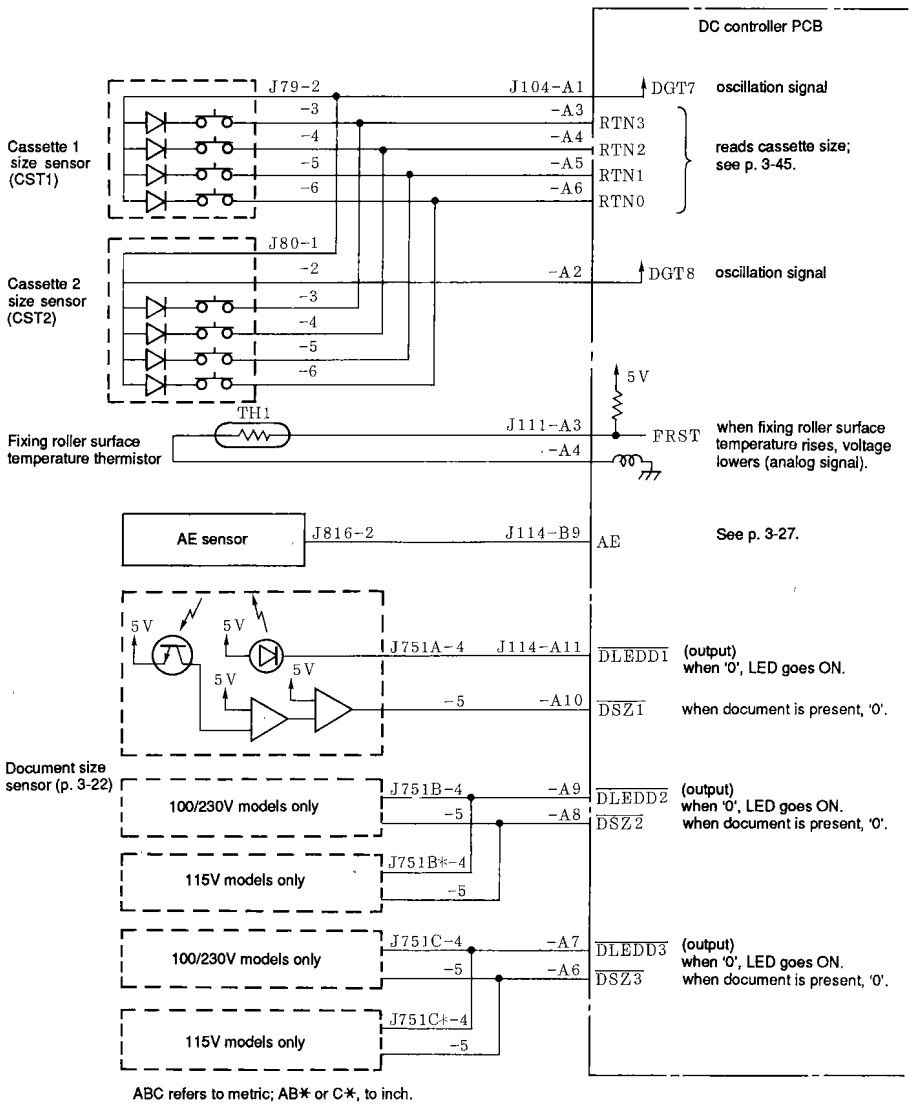

Figure 3-5

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4. Inputs to DC Controller (cassette feeding unit)

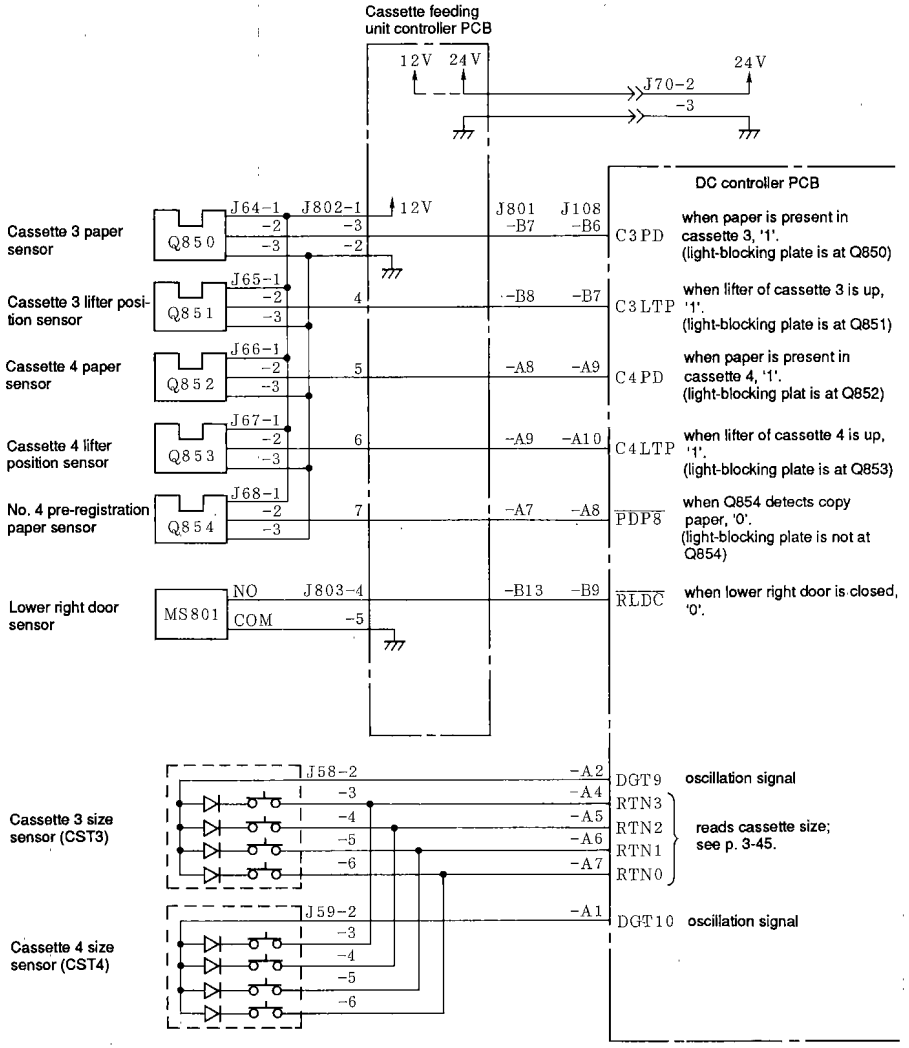

Figure 3-6

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D. Outputs from DC Controller

1. Outputs from DC Controller (1/4)

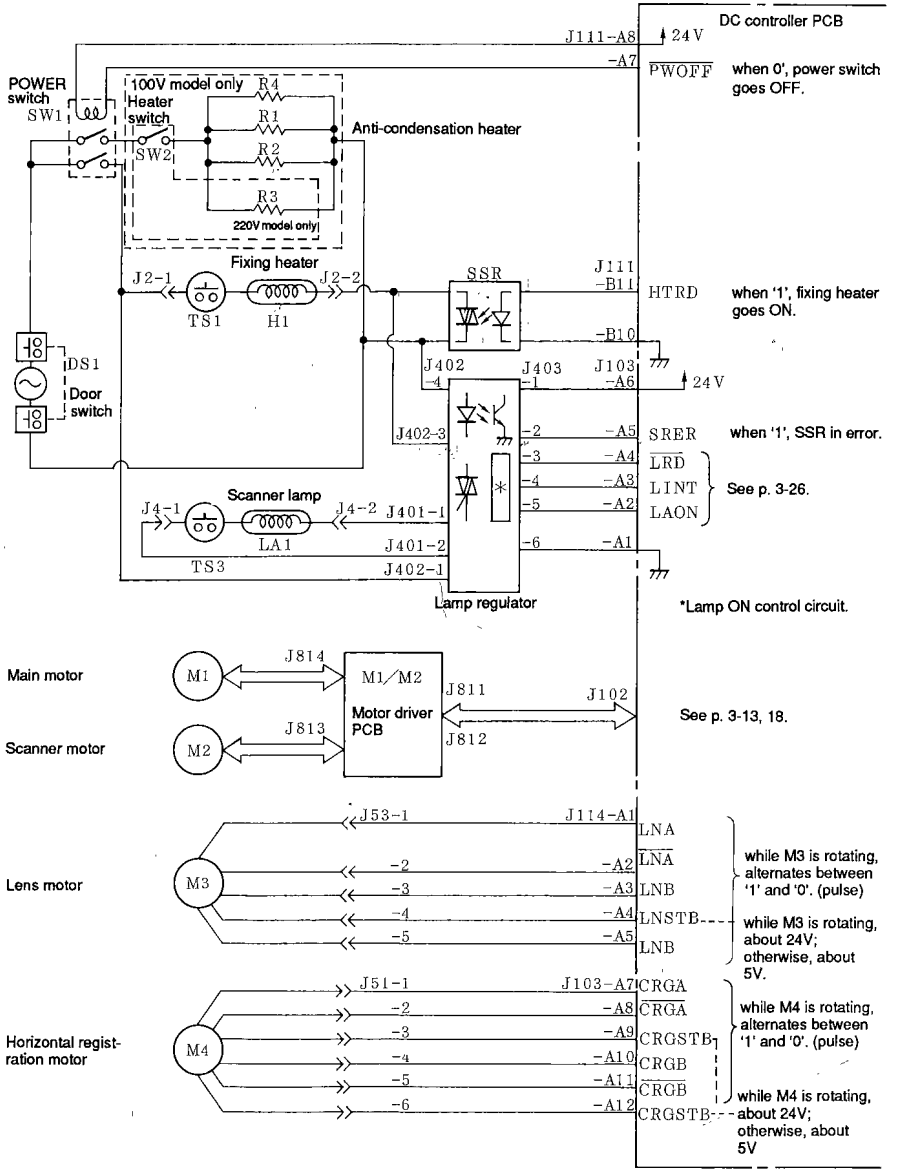

Figure 3-7

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2. Outputs from DC Controller (2/4)

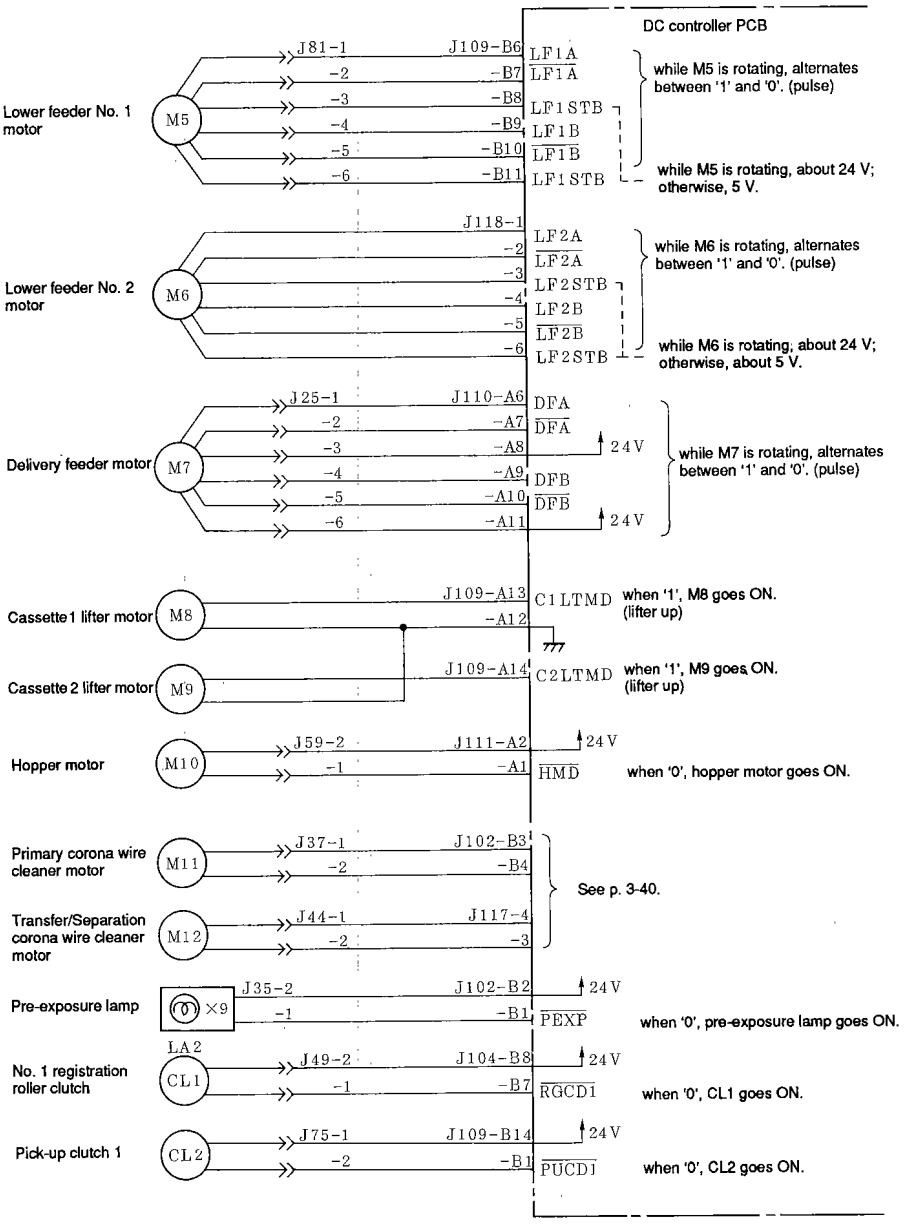

Figure 3-8

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3. Outputs from DC Controller (3/4)

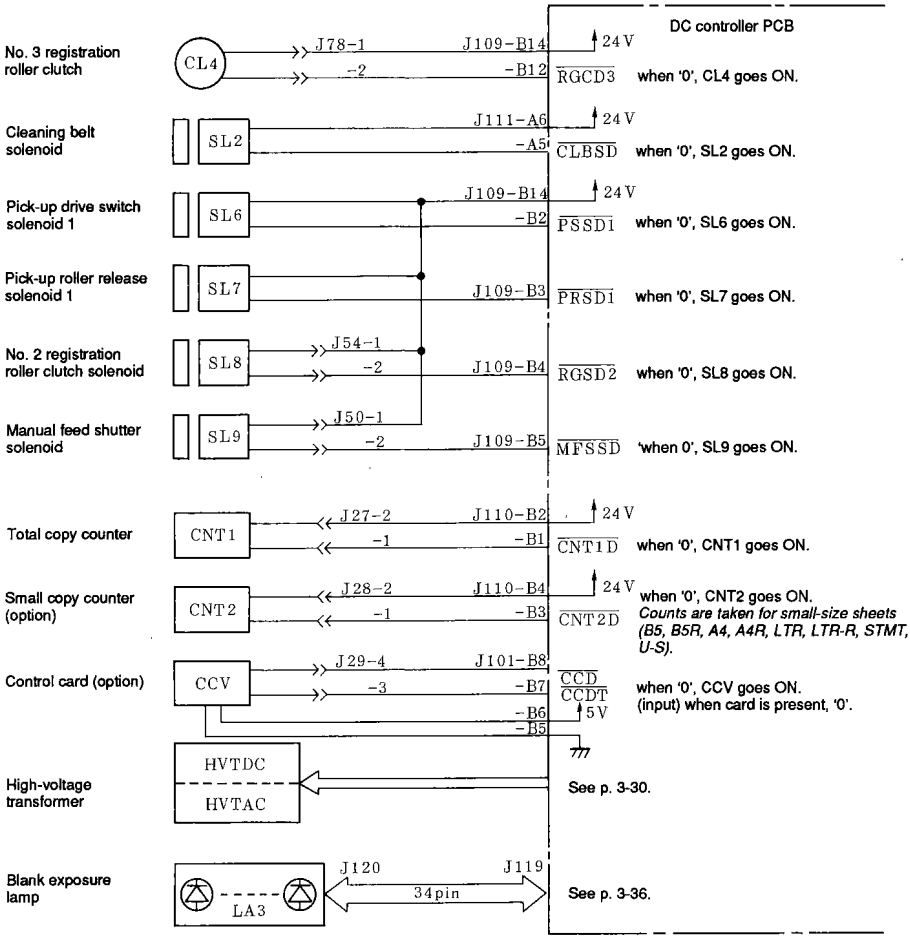

Figure 3-9

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4. Outputs from DC Controller (4/4)

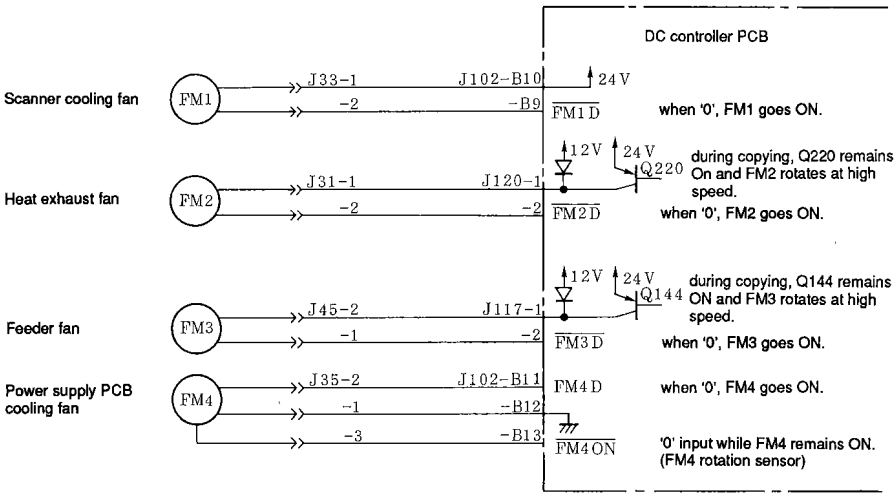

Figure 3-10

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5. Outputs from DC Controller (cassette feeding unit)

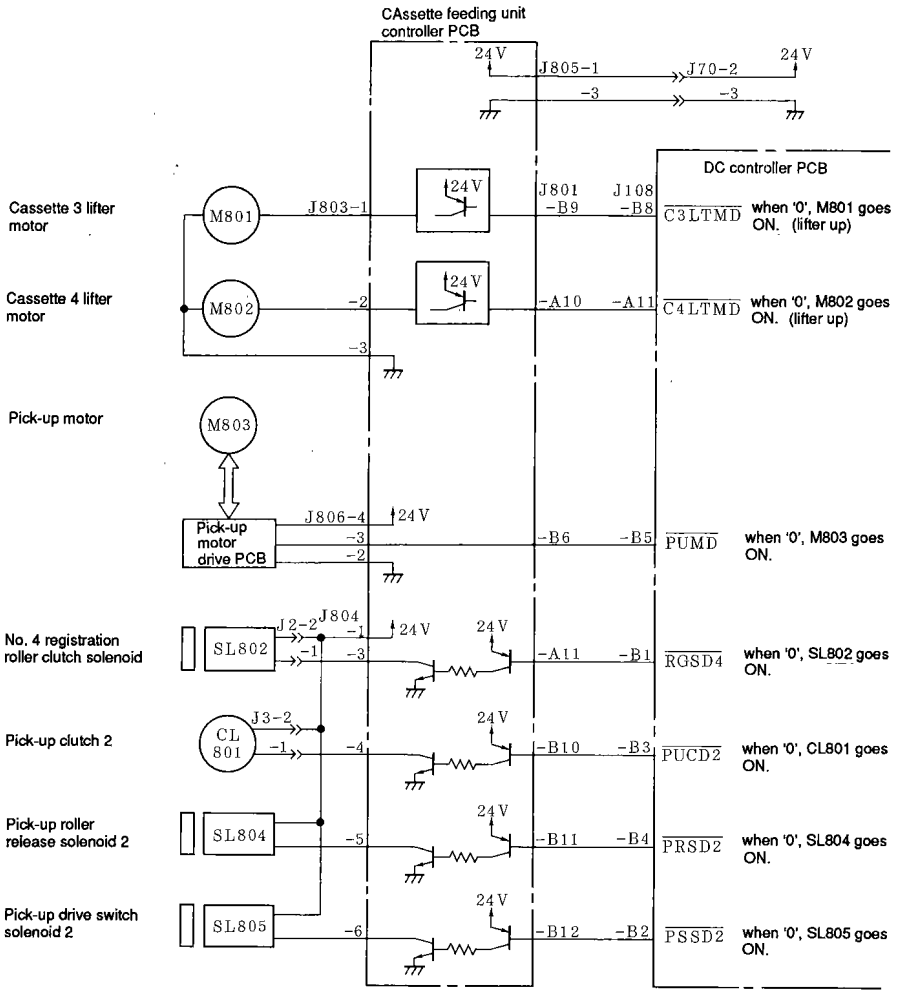

Figure 3-11

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E. Main Motor Control Circuit

1. Outline

Figure 3-12 shows the circuit that controls the main motor (M1), and the circuit has the following functions:

① Turns the main motor ON and OFF.
② Controls the main motor at constant speed.

The main motor (M1) is a DC motor with a built-in clock pulse generator. When the motor rotates, clock pulses (MMCLK) suited to the revolution of the motor are generated. The speed control circuit controls the motor speed using these clock pulses.

2. Mechanism

When the main motor drive command ($\overline{MMD}$) from the DC controller PCB goes '0', the drive circuit of the motor driver goes ON, thereby rotating the main motor.

The DC controller circuit monitors the main motor for an error by checking the PLL lock signal ($\overline{M1LK}$).

If the PLL lock signal ($\overline{M1LK}$) remains '1' for more than a specific period of time, 'E010' will be indicated on the control panel.

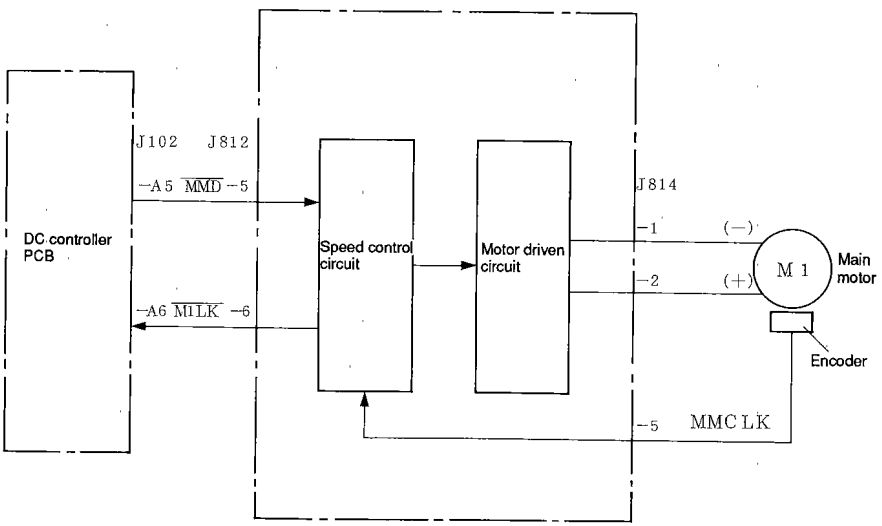

Figure 3-12

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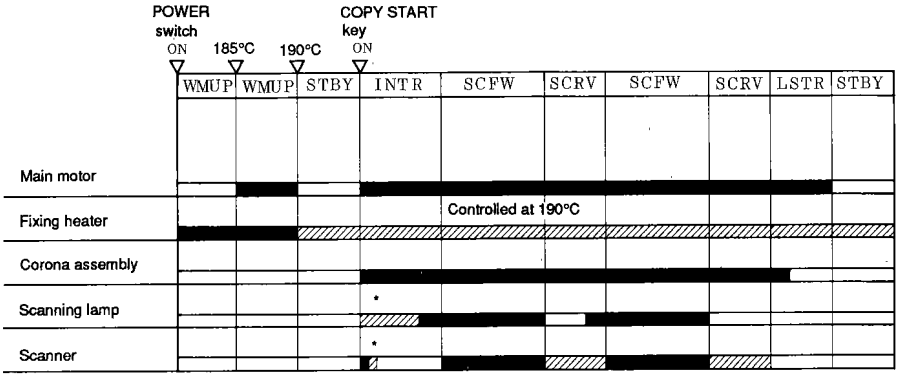
F. Sequence of Operations



* The lamp goes ON and the scanner moves back and forth only when in the AE mode.

Figure 3-13

Period		Description	Remarks
WMUP (warm-up)	From when the POWER switch is pressed until when the temperature of the fixing roller reaches 185°C.	Waits for the fixing roller to warm up.	The warm-up time varies depending on the temperature of the fixing roller.
WMUPR (warm-up rotation)	From when the temperature of the fixing roller reaches 185°C to when it reaches 190°C; 6 sec min.	Evens out the temperature of the fixing roller.	Upon completion of WMUPR, the message on the display changes from 'WAIT' to 'READY'.
INTR (initial rotation)	For at least 1.5 sec after the COPY START key is pressed.	Stabilizes the sensitivity of the drum in preparation for copying operation.	
		Moves the scanner back and forth about 15 mm to measure the density of the document.	The operation applies to the AE mode only.

Table 3-1A

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Period		Description	Remarks
SCFW (scanner forward)	While the scanner is moving forward. • The distance varies depending on the size of the cassette and the reproduction ratio selected. • The speed varies depending on the reproduction ratio selected.	Exposes the document by the scanning lamp, and the reflected optical image is directed to the photosensitive drum through mirrors and lens.	The registration signal is generated, and the copy paper is forwarded to the transfer assembly.
SCRV (scanner reverse)	While the scanner is moving in reverse.	Returns the scanner to the home position.	
LSTR (last rotation)	From when SCRV is completed to when the copy paper has passed the delivery sensor.	Cleans the drum surface electrostatically as post-copying processing.	The last copy is discharged.
STBY (standby)	From when LSTR is completed to when the COPY START key is pressed or when the machine is turned OFF.	Waits for a key operation, e.g., a press on the COPY START key.	• The indicators on the control panel returns to the standard mode 2 min after the completion of LSTR. • If the auto start mode* is activated, copying will start after LSTR. ** Documents are sed during the wait period and the COPY START key is pressed.*

Table 3-1B

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II. EXPOSURE SYSTEM

A. Varying the Reproduction Ratio

The reproduction ratio across the drum (axial) is varied by the lens drive system; that around the drum (circumferential) is varied by the scanner drive system.

The lens drive system consists of a zoom lens which is moved back and forth to change the focal distance, thereby varying the reproduction ratio across the drum.

The scanner drive system changes the speed of the movement of the No. 1 mirror to vary the reproduction ratio around the drum; faster than the drum speed for reduction, and slower for enlargement.

Note:

i. In the DIRECT mode, the speed of the No. 1 mirror and the circumferential speed of the drum are the same.

ii. In this copier, mirror-to-mirror relocation is not used to change reproduction ratios.

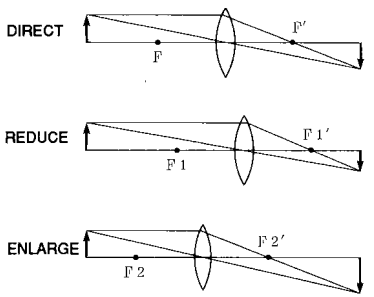

Figure 3-14

B. Lens Drive System

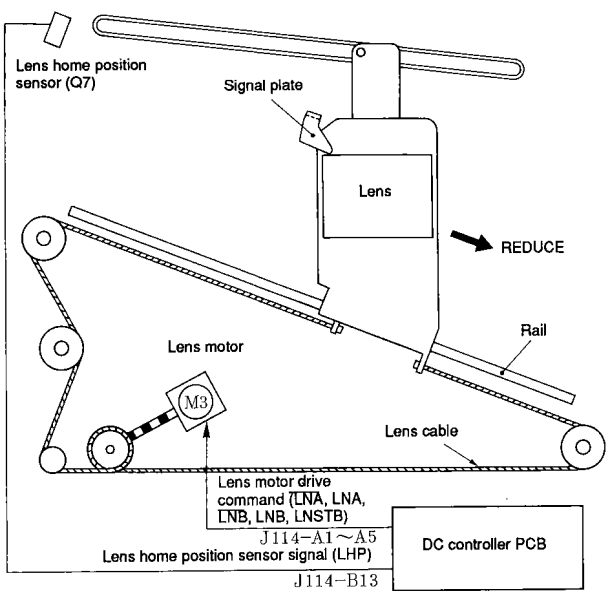

Figure 3-15

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1. Outline

The lens assembly is driven by the lens motor (M3).

When the machine is switched ON, the motor always rotates in reverse, thereby moving the lens to a point at which the signal plate blocks the home position sensor. When the lens reaches the home position, the motor starts to rotate clockwise, and the motor stops after the signal plate has left the sensor and a specific number of pulses have been generated; this will set the lens to the DIRECT position.

To move the lens in the ENLARGE direction (e.g., from REDUCE to ENLARGE), the motor is rotated counterclockwise first, moving the lens past the position for the selected reproduction ratio; thereafter, the motor starts to rotate clockwise, thereby moving the lens back to the position for the selected reproduction ratio. Stopping the lens with the motor rotating clockwise ensures correct positioning of the lens.

2. Lens Motor Drive Circuit

The lens motor is a stepping motor and is rotated by the LNSTB signal and pulse signals ($\overline{LNA}$, LNA, $\overline{LNB}$, LNB).

When the lens motor is rotating, LNSTB is 24 V; the motor rotates when the above pulses are applied to each phase in sequence.

When the lens motor is at rest, LNSTB is 5 V; the motor is still provided with power so as to maintain the position of the lens.

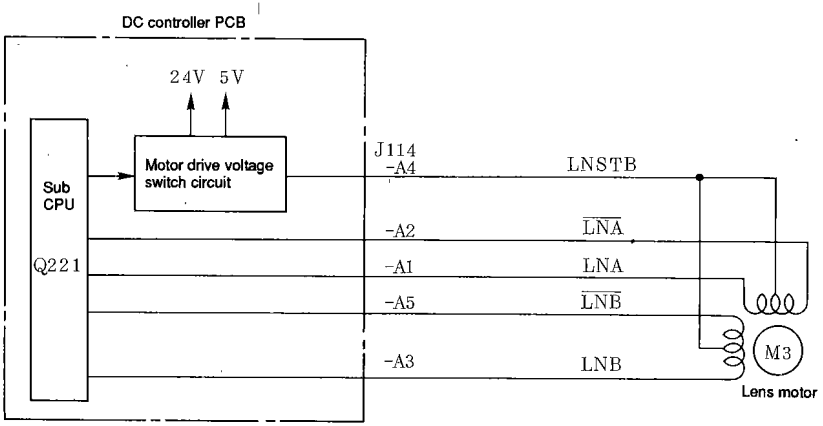

Figure 3-16

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C. Scanner Drive System

1. Outline

The scanner motor is a DC motor and is equipped with a built-in clock pulse generator.

The direction of its rotation is changed to move the scanner forward or in reverse; the speed of its rotation when moving the scanner forward is varied to suit the reproduction ratio.

The speed of its rotation when moving the scanner in reverse is constant and is maintained three times the speed at which the scanner is moved forward in the DIRECT mode.

The motor is braked when the signal plate reaches the photointerrupter (Q9) to stop the scanner at the home position.

The distance over which the scanner moves is varied to suit the size of copy paper and the selected reproduction ratio.

2. Mechanism

The motor driver circuit controls the direction and speed of the scanner motor based on the following signals generated by the microprocessor on the DC controller:

- scanner motor drive command ($\overline{\text{SCMD}}$)
- scanner forward command ($\overline{\text{SCFW}}$)
- scanner speed control command (SCCLK)

The motor driver circuit operates as shown in Table 3-2 based on the combinations of $\overline{\text{SCMD}}$ and $\overline{\text{SCFW}}$.

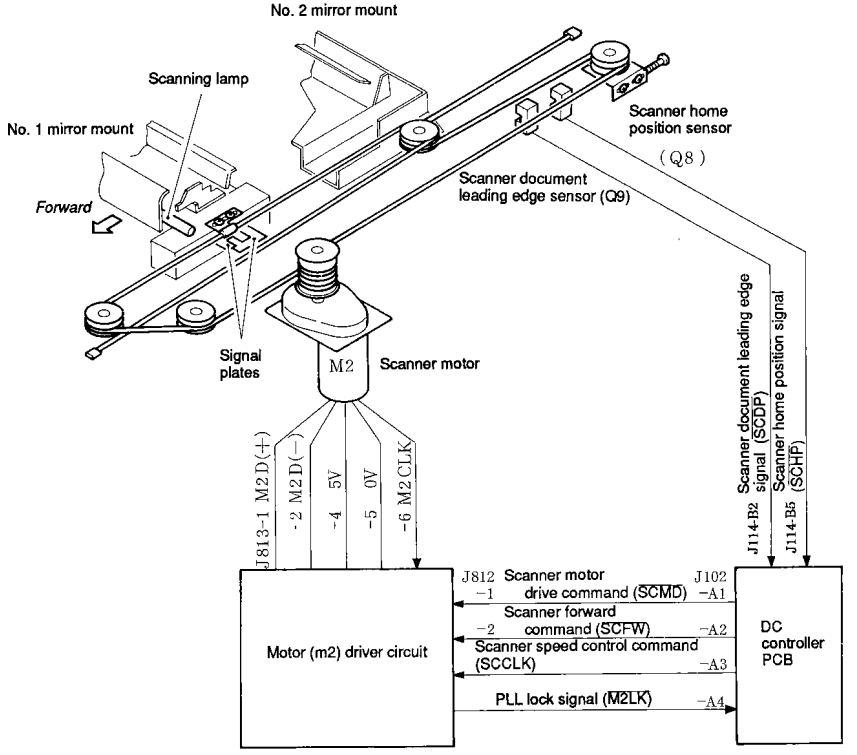

Figure 3-17

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	$\overline{SCMD}$	$\overline{SCFW}$
Forward	0	0
Reverse	0	1
Braking	0	*
Still	1	**

*'1' and '0' are reversed from previous combination.
**'1' and '0' are maintained.

Table 3-2

When the scanner is moving forward, the number of SCCLK pulses is varied according to the reproduction ratio selected; when the scanner is moved in reverse, however, the number remains the same. The motor driver circuit compares the scanner motor clock pulse (M2CLK) against the number of SCCLK pulses and exerts control so that they match.

The machine will indicate 'E203' if the PLL lock signal (M2LK) remains '1' for more than a specific period of time.

3. Relationship between Scanner Sensors and Signals

Scanner sensor	Signal	Scanner		Description
		Forward	Reverse	
Q8	SCHP			The scanner is at the home position.
Q9	SCDP	1st		• The scanner is reversed after the measurements of the document density are read in the AE mode.
		2nd		• 0.3 sec* thereafter, the No.1 registration roller clutch goes ON. • This serves as the reference for the forward movement of the scanner.
			1st	• The reverse movement of the scanner stops. • About 2.5 msec* thereafter, the scanner is braked.

*May be varied in the service mode.

Table 3-3

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4. Sequence of Operations (scanner)

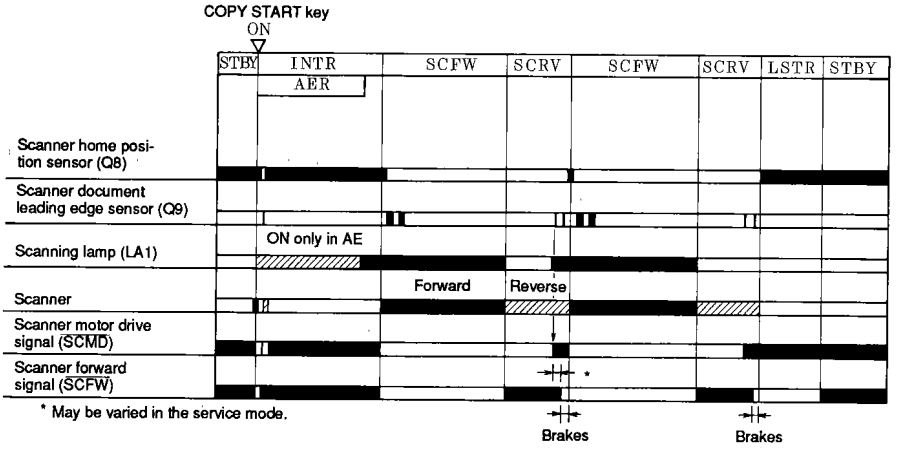

Figure 3-18

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5. Sequence of Operations (two-page separation)

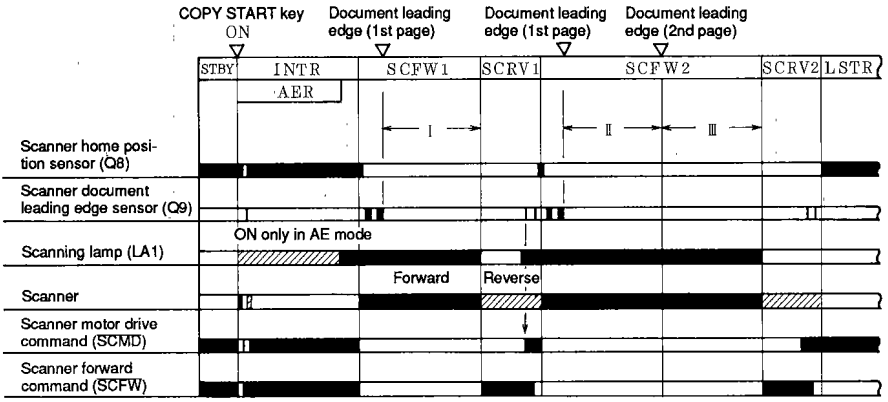

Figure 3-19

I, II, and III shown in Figure 3-19 are controlled by the microprocessor on the DC controller PCB based on the scanner document leading edge (falling edge of SCDP) for the first page.

The microprocessor determines the distance over which the scanner should move based on the size of the document or the size of the selected cassette.

I, II: The distance over which the scanner moves is determined by the reproduction ratio selected and the size of the document or the size of the cassette.

III: When the size of the document is identified, the microprocessor divides the measurement by 2 and assumes the result of division to be the center of the document.
The scanner is moved assuming the center to be the leading edge of the document.
If continuous copying is executed without identifying the size of the document, the size of the cassette will be used as reference for control.
If II in Figure 3-19 exceeds about 216 mm, 216 mm (approx.) will be assumed to be the leading edge of the second page.
If the sequence of copying the first and second pages is changed in the asterisk mode, the mechanism remains the same except that the sequence of SCFW2/SCRV2 and SCFW1/SCRV1 will be different.

Note:
If two or more modes are selected, the scanner is controlled based on the minimum measurement of the document.
The microprocessor exerts control based on the document size only when the modes in Table 3-4 are selected.

Mode	Document size (reference)
FEEDER (with RDF in use)	document size identified by feeder; the identified size may be checked in the service mode (DF-SIZE; ✳ 1 ✳).
DOCUMENT FRAME ERASE	document size specified by user
AUTO REPRO or AUTO PAPER SELECT	document size identified by copier

Table 3-4

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D. Controlling the Document Size Identification

1. Outline

The machine is equipped with auto paper selection and auto reproduction ratio selection mechanisms and, to enable these modes, the size of the document must be identified.

Figure 3-20 shows the three document sensor circuits attached under the copyboard glass. When the copyboard cover is brought down, the outputs of the document sensor circuits are checked, and the measurements are used to identify the size of the document as being A3, B4, A4, or B5 (standard sizes).

These document sensor circuits cause LEDs to emit light against the document, and the reflected light is monitored by phototransistors, whose outputs are sent to the DC controller.

2. Mechanism

When the copyboard cover is brought down to about 30 degrees, the microswitch (MS2) attached to the rear of the machine goes ON.

For a period of 15 sec after MS2 has gone ON or until the COYP START key is pressed, the output of each sensor is read at intervals of 0.1 sec. If no change takes place in the level during the period, i.e., if the sensors do not go ON or OFF, a document is assumed to exist over each respective sensor. The size of the document is then identified based on the combinations shown in Table 3-5.

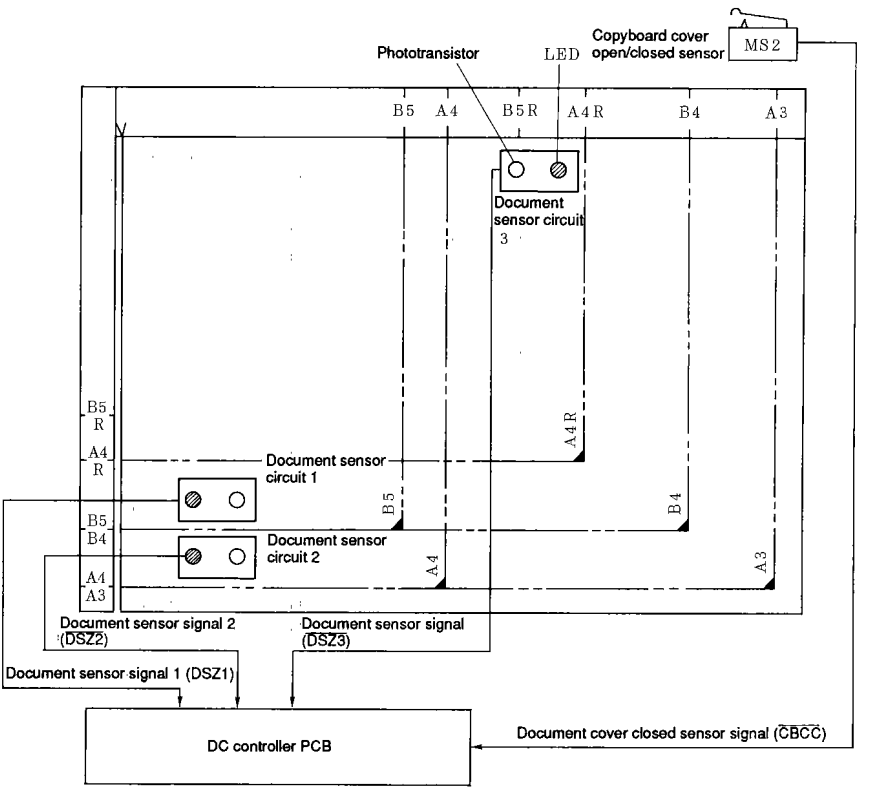

Figure 3-20

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The mechanism found below ensures identification of sizes even if the density of the documents is appreciably low.

In this mechanism, however, the output levels of the sensors will not vary under conditions a and b below; to compensate for this, if any one of the output levels of the three sensors does not change when MS2 goes ON, the levels of the sensors are compared against the slice level to identify the size of the document.

In the case of c, A3/11"×7" will be selected automatically; if a suitable cassette is not available, the cassette specified in the standard mode will be selected.

a. black document of A3/11"×17"
b. book document (thickness makes the changes in sensor levels too small for detection)
c. copyboard cover not closed (MS2 OFF)

Note:
Conditions give above, i.e., a, b, and c, make correct identification of the document size difficult.

3. Identifying the Document Size

The DC controller PCB identifies the size of the document based on combinations of signal states as shown in Table 3-5.

No.	Document size	Document sensors		
		1	2	3
1	A3	ON	ON	ON
2	B4	ON	OFF	ON
3	A4	ON	ON	OFF
4	B5	ON	OFF	OFF
5	A4R	OFF	OFF	ON
6	B5R	OFF	OFF	OFF

ON: indicates a document is present.
OFF: indicates no document is present.

Table 3-5

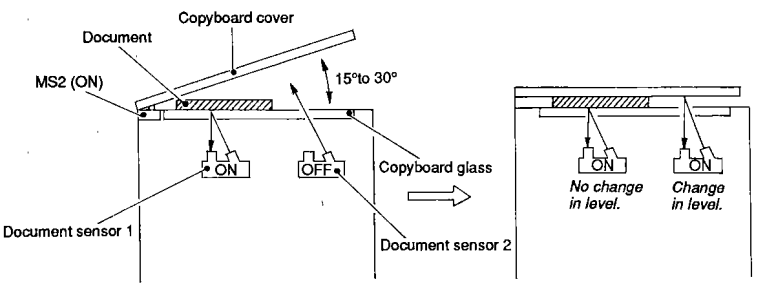

Figure 3-21 Identifying the Size of Documents

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III. IMAGE FORMATION SYSTEM

A. Outline

The machine's image formation system consists in the following:

- Controlling the scanning lamp
- Controlling the primary/transfer corona current/ grid bias
- Controlling the pre-transfer/separation corona current
- Controlling the development bias
- Controlling the blank exposure lamp (LED)

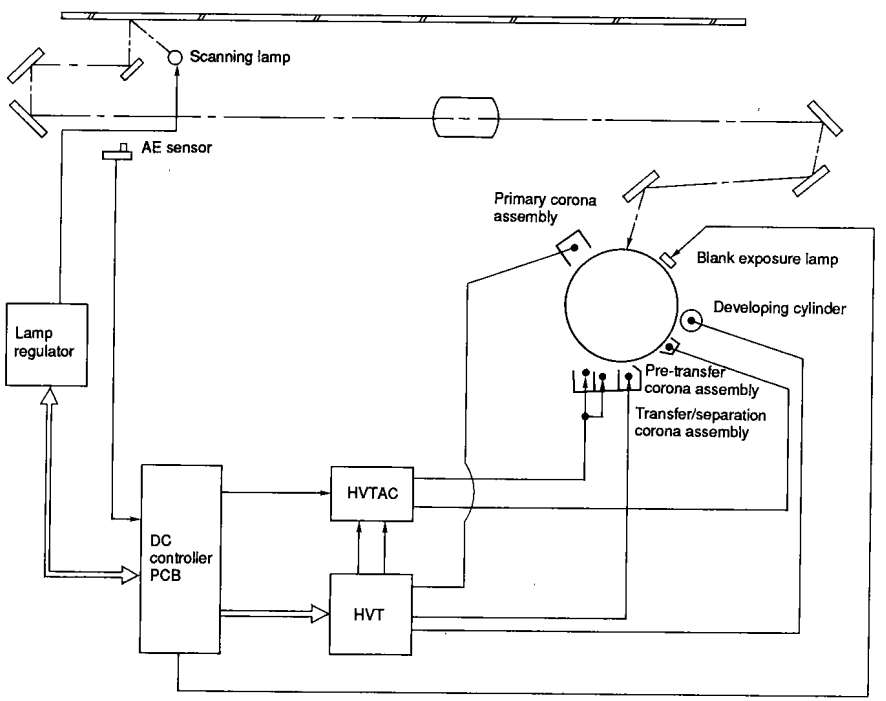

Figure 3-22 Construction of Image Formation System

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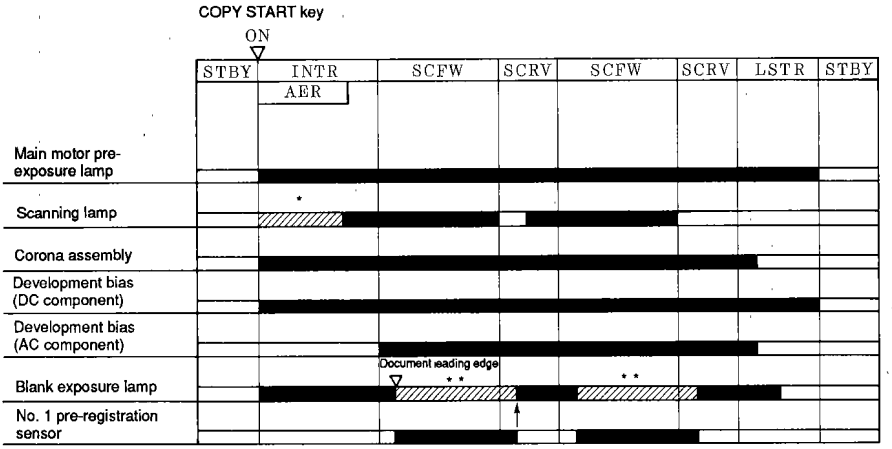
B. Sequence of Operations (image formation system)



* ON only in the AE mode.
** Controls ON/OFF operations according to the reproduction ratio, copy paper size, and copy modes.

Figure 3-23

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C. Controlling the Scanning Lamp Intensity

1. Outline

Figure 3-24 shows the circuit that controls the intensity of the scanning lamp, and the circuit has the following functions:

i. Turns the scanning lamp ON and OFF.

ii. Checks the state of the scanning lamp (i.e., ON or OFF; for self diagnosis of the triac triggering circuit in the lamp regulator).

iii. Controls the intensity of the scanning lamp.
- Keeps the intensity constant against fluctuation in the power supply voltage.
- Controls the intensity to suit the settings by the COPY DENSITY key (manual mode).
- Controls the intensity to suit the document density (AE mode).
- Lowers the intensity in the following modes:
  photo mode — lowers by 18.9 V
  64% repro ratio or lower — lowers by 3.3 V

2. Mechanism

a. Controlling the Scanning Lamp ON and OFF

When $\overline{LRD}$ is '1', the output of the lamp regulator goes '0', cutting off the power to the phase control circuit; this condition cause the triac triggering circuit to go OFF and the scanning lamp (L1) to go OFF.

When $\overline{LRD}$ is '0', the output of the lamp regulator switch circuit goes '1', supplying the phase control circuit with 24 V and causing the triac triggering circuit to go ON; this condition causes the scanning lamp (LA1) to go ON.

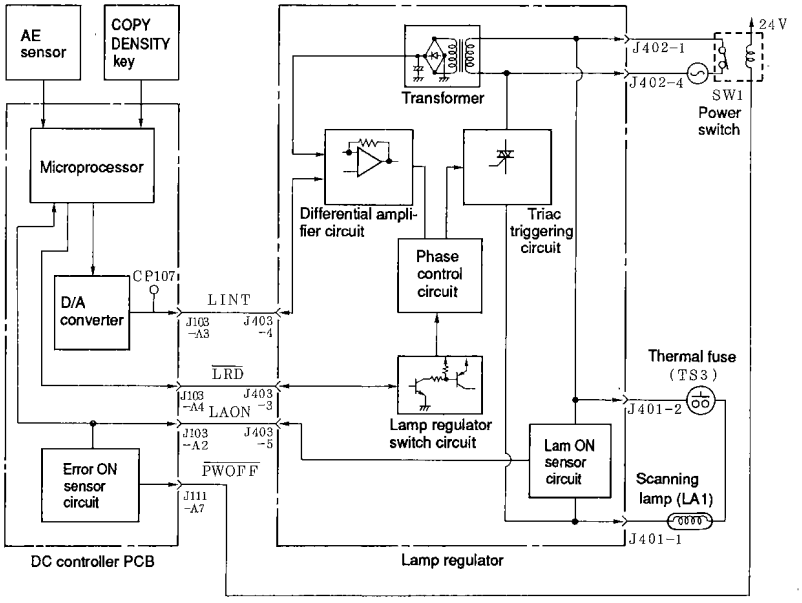

Figure 3-24 Scanning Lamp Intensity Control Circuit

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b. Checking the State of the Scanning Lamp

When the scanning lamp (LA1) is ON, i.e., when the triac triggering circuit is operating, the lamp ON sensor circuit is also operating and its output (LAON) is '1'.

If LAON remains '1' for about 40 sec or more because of a fault in the microprocessor or the lamp regulator, the error ON sensor circuit goes ON to turn the machine OFF.

c. Controlling the Intensity of the Scanning Lamp

The intensity of the scanning lamp is increased or decreased by by controlling the supply voltage to the scanning lamp based on the intensity adjustment signal (LINT) coming from the DC controller PCB.

The LINT signal varies between 10 and 16 V depending on the settings made in the service mode and those made using the COPY DENSITY key so that the supply voltage to the scanning lamp varies between 45 and 80 V in terms of effective values.

3. Automatic Exposure Control (AE)

a. Outline

The machine is equipped with an automatic exposure control mechanism that automatically controls the intensity of the scanning lamp to suit the density of the document.

When the machine is used in the AE mode, copies free of fogging may be made without manual adjustment as long as the document is more or less even in density.

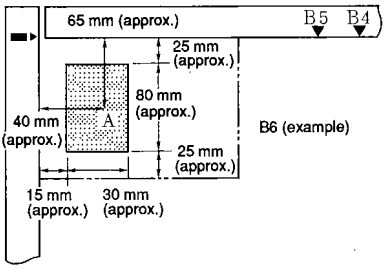
The intensity of the lamp controlled in the AE mode is indicated on the display on the control panel.

b. Control Mechanism

The scanning lamp is turned ON during initial rotation (INTR), and the scanner is moved forward about 15 mm to expose the document.

At the position, the intensity of light reflected by the area of the document shown in Figure 3-25 is measured, and the measurement is sent to the DC controller PCB.

Based on this measurement, the DC controller PCB, on the other hand, computes the optimum intensity for the scanning lamp for copying operation and sends the data to the lamp regulator as the intensity adjustment signal (LINT).



Note: A *represents the location of the AE sensor.*

Figure 3-25

Figure 3-26 shows the change in the intensity of the scanning lamp with respect to the change in the document density.

The graph is based on the degree of exposure that ensures copies with optimum density and free of fogging when made of the Test Sheet and a newspaper.

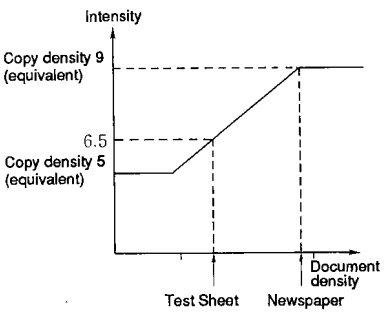


Figure 3-26

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4. Making Checks (on input signals)

- **J103-A4 (DC controller PCB; voltage)**

The voltage between J103-A4 ($\overline{LRD}$) on the DC controller and GND must be about 0 V while the scanner is moving forward; it must be about 24 V during initial rotation, while the scanner is moving in reverse, and during last rotation.

If the measured voltage does not vary as above, the DC controller circuit is likely to be faulty.

- **CP107 (DC controller PCB; voltage)**

The voltage between CP107 (LINT) on the DC controller PCB and GND must be about 10 to 16 V and the voltage must change each time the COPY DENSITY key is pressed.

Note:
Once open, the thermoswitch (TS3) cannot be used unless cooled to 0°C or less; the contact will not recover at ambient temperature.

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5. Adjusting the Intensity and AE

Table 3-6 discusses those items that can be adjusted on the scanning lamp intensity control circuit.

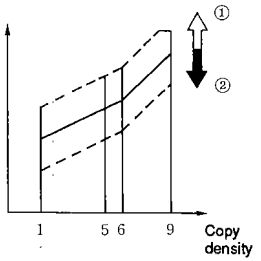
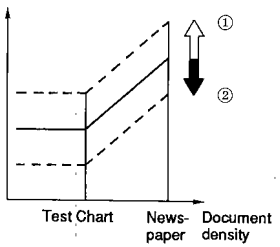
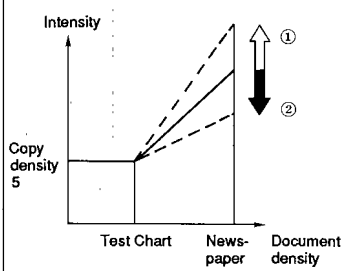
Item	Adjustment	Description	Remarks
✱ 3 ✱ LIGHT	Optimum exposure (copy density 5)	(manual) Intensity  (AE) Intensity 	i. If the setting is increased in the service mode, the intensity during copying operation increases and the copy density will decrease. ii. If the setting is decreased in the service mode, the intensity during copying operation decreases and the copy density will increase.
✱ 4 ✱ AE_SLOP	AE slope		i. If the setting is increased in the adjustment mode, the copies of newspapers will decrease. ii. If the setting is decreased in the adjustment mode, the copies of newspapers will increase.
✱ 3 ✱ AE_ADJ	Light intensity for AE scan	Determines the reference intensity for AE scanning; see P. 3-157	

Table 3-6

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D. Controlling the Primary/ Transfer Corona Current Grid Bias

1. Outline

Figure 3-27 shows the circuit that controls the primary/transfer corona and the grid bias, and the circuit has the following functions:

- Turns the primary/transfer corona current ON and OFF.
- Maintains the primary corona current constant.
- Switches values for the transfer corona current.
- Switches the grid bias for the primary corona assembly.

The output of the machine's primary corona assembly is controlled to a specific value to eliminate the effects of the environment on the corona discharge. The output of the transfer corona assembly and the grid bias varies according to the output of the primary corona assembly.

The primary/transfer current and the grid bias are turned ON and OFF by the primary corona level control command (HVPR) generated by the DC controller circuit.

When two-sided or overlay copies are made, the transfer corona current is switched by the transfer corona level control command (HVTR) generated by the DC controller circuit.

In the photo mode, the high voltage applied to the primary corona assembly grid wire is switched by the grid bias control command (HVGB) generated by the DC controller circuit.

To limit the dirt on the primary corona wire, a bias identical to that applied to the grid wire is applied to the shield plate of the primary corona assembly.

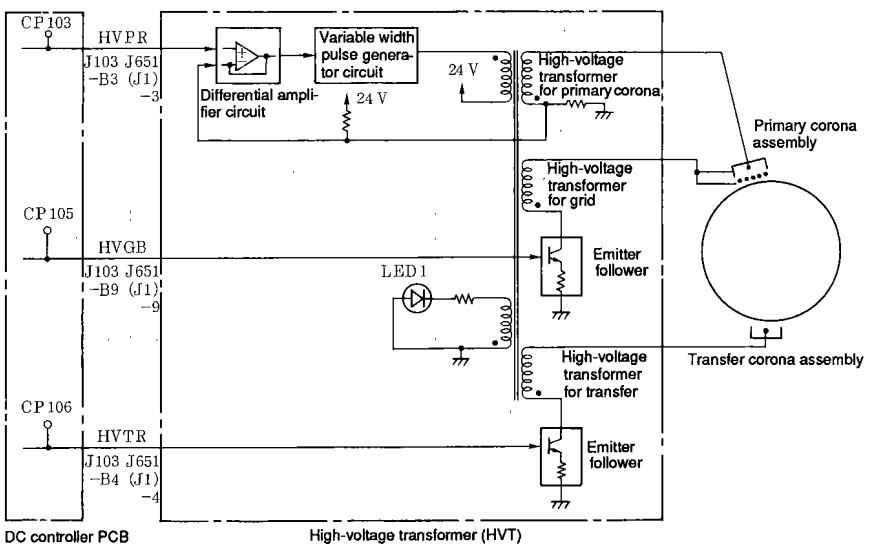

Figure 3-27 Primary/Transfer Corona Current Grid Bias Control Circuit

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2. Mechanism

The primary/transfer corona current and the grid bias is turned ON and OFF by the HVPR; the differential amplifier circuit shown in Figure 3-27 operates when HVPR is about 8 V or more.

a. High-voltage output is ON

HVPR control signal is output.
→ Differential amplifier circuit goes ON.
→ Variable width pulse generator goes ON.
→ LED1 goes ON.
→ High-voltage transformer goes ON.

At the time, the corona current sent to the transfer corona assembly is of a value suitable to HVTR. Likewise, the grid bias sent to the grid wire of the primary corona assembly is of a value suited to HVGB.

If a corona current larger than the specific value flows from the primary corona assembly because of changes in the environment, the level of the feedback signal to the differential amplifier circuit increases and, as a result, the output of the differential amplifier decreases; for this reason, the corona current from the primary/transfer corona assembly will decrease, controlling the current to a constant value at all times.

b. High-voltage output is OFF

HVPR is about 7.5 V.
→ Differential amplifier circuit is OFF.
→ Variable width pulse generator circuit goes OFF.
→ LED1 goes OFF.
→ High-voltage transformer goes OFF.

If '1' is set under 'TRN-CHG' in the service mode (✳ 5 ✳), the transfer output will be 50μA larger than the setting made under 'TRN-1, TRN-2' in the service mode (✳ 3 ✳).

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E. Separation/Pre-Transfer Corona Current Control

1. Outline

Figure 3-28 shows the circuit that controls the separation/pre-transfer corona, and the circuit has the following functions:

- Turns the separation/pre-transfer corona current ON and OFF.
- Maintains the separation/pre-transfer corona current constant.
- Switches the separation corona current.

The machine's separation/pre-transfer corona current is controlled in the same way as the primary corona assembly, i.e., by constant current control.

The separation/pre-transfer corona current is turned ON and OFF and the separation corona current is switched by the following three signals generated by the DC controller circuit:

- separation corona level control command (HVSP)
- pre-transfer corona level control command (HVPT)
- AC transformer drive command ($\overline{\text{HVAC}}$)

2. Mechanisms

The two differential circuits shown in Figure 3-28 go ON when HVSP or HVPT is 16 V or less.

a. Separation/Pre-transfer high-voltage output is ON

HVSP/HVPT control signal is output.
→ Differential amplifier circuit goes ON.
→ Variable width pulse generator circuit goes ON.
→ High-voltage transformer for separation goes ON.
→ High-voltage transformer for pre-transfer goes ON.

In this condition, the DC component of each high voltage is output. At the time, $\overline{\text{HVAC}}$ is '0', causing the high-voltage AC transformer to go ON; the high-voltage AC transformer outputs both DC and AC components. At the time, the separation/pre-transfer corona current are of values suited to HVSP and HVPT.

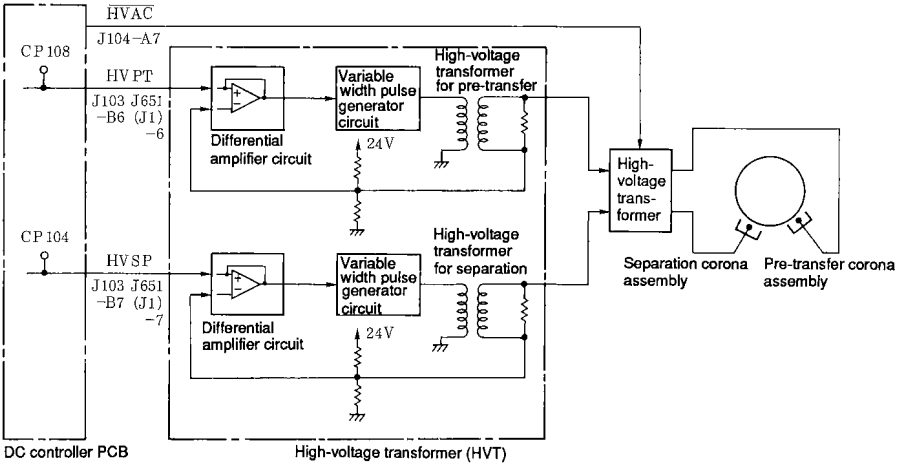

Figure 3-28 Separation/Pre-Transfer Corona Current Control Circuit

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b. Separation/Pre-transfer high-voltage output is OFF.

HVSP/HVPT is about 17 V.
└→ Differential amplifier circuit goes OFF.
└→Variable width pulse generator circuit goes OFF.
├→High-voltage transformer for separation goes OFF.
└→High-voltage transformer for pre-transfer goes OFF.

At the time, $\overline{\text{HVAC}}$ is '1', causing the high-voltage AC transformer to go OFF.

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F. Controlling the Developing Bias

1. Outline

Figure 3-29 shows the circuit that controls the development bias, and the circuit has the following functions:

- Turns the development bias AC component ON and OFF.
- Turns the development bias DC component ON and OFF.
- Controls the voltage level of the development bias DC component.

The above control mechanisms are executed by the following two signals generated by the DC controller circuit:

- development bias AC drive command ($\overline{\text{HVBAC}}$)
- development bias DC level control command (HVBDC)

2. Mechanism

a. Turning the AC Bias ON and OFF

- $\overline{\text{HVBAC}}$ is '1'.
  → Pulse generator circuit goes OFF.
  → AC high-voltage transformer goes OFF.

The above condition cuts off the AC bias to the developing cylinder.

- HVBAC is '0'.
  → Pulse generator circuit goes ON.
  → AC high-voltage transformer goes ON.

The above condition supplies the developing cylinder with the AC bias.

b. Turning the DC Bias ON and OFF and Controlling the Voltage Level

The differential amplifier circuit shown in Figure 3-29 goes ON when HVBDC is 16V or less.

- DC bias is OFF.
  HVBDC is about 17 V.
  → Differential amplifier circuit goes OFF.
  → Variable width pulse generator goes OFF.
  → DC high-voltage transformer goes OFF.

The above condition cuts off the DC bias to the developing cylinder.

- DC bias is ON.
  HVBDC is 8 to 16 V.
  → Differential amplifier circuit goes ON.
  → Variable width pulse generator circuit goes ON.
  → DC high-voltage transformer goes ON.

The above condition supplies the developing cylinder with the DC bias.

HVBDC varies between 8 and 16 V according to the setting made in the service mode.

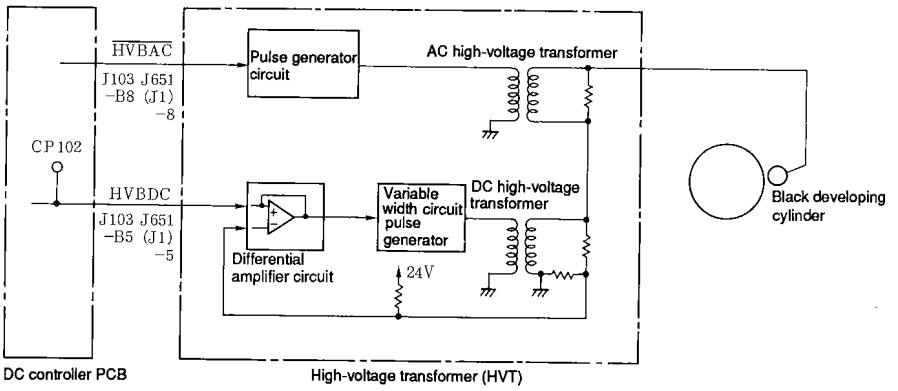

Figure 3-29

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3. Making Adjustments

Table 3-7 shows those items that can be adjusted on the development bias control circuit; make sure that the copy density correction value (asterisk mode; [*][5][OK]) is at the standard (center) value before making these adjustments.

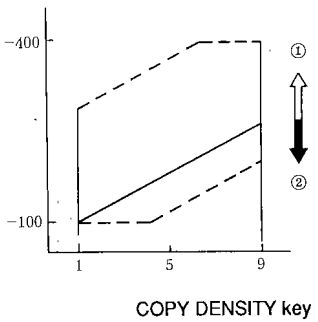
Item	Adjustment	Description	Remarks
[*][3][*] BIAS_N	Development bias DC component (development bias 2,000 Hz; 1.250 VAC p-p)	Development bias DC component  COPY DENSITY key	i. If the setting is increased in the service mode, the DC component of the development bias for black copies increases and the copy density will decrease. ii. If the setting is decreased in the service mode, the DC component of the development bias for black copies decreases and the copy density will increase.

Table 3-7

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G. Controlling the Blank Exposure Lamp (LED)

1. Outline

The blank exposure lamp array consists of 124 LEDs.

While the drum is rotating and the document is not exposed, all 124 LEDs of the blank exposure lamp are kept ON.

When the document is exposed, the LEDs are kept ON or OFF depending on the selected copy size and copy modes.

The two LEDs each at both ends are kept ON at all times while the drum is rotating.

2. Control When Making Copies in REDUCE

While the document is exposed when making reduced copies, LEDs (rear) in numbers suited to the reproduction ratio are kept ON to blank (white) out the non-image areas.

3. Control When Making Copies in DIRECT

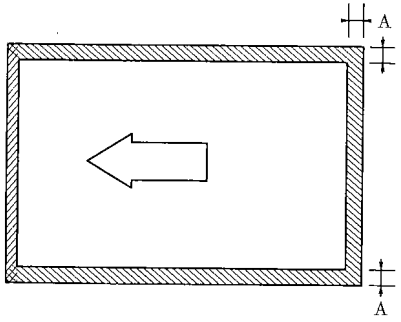
While the document is exposed when making DIRECT copies, LEDs (rear) in numbers suited to the cassette size are kept ON to blank (white) out the non-image area.

When using a fixed reproduction ratio or when using a standard size sheet in the DIRECT mode, a non-image area with a width of about 2.0 mm is created at the rear and the front of the image.

4. Control in Sheet/Original Frame Erasing Mode

In the sheet frame erasing mode, LEDs are turned ON so that toner will not be deposited in areas of the sheet about 7 mm wide along its four sides.

Note:
In the manual mode, the frame erasing mechanism is controlled based on 'maximum size' (297×432 mm) regardless of the size of the selected copy paper.
If the universal cassette is used with the paper size apecified, the sheet frame erasing mechanism is controlled based on the specified size.



A = 7 mm (approx.)

Figure 3-30 (Frame Erasing mode)

In the Original frame erasing mode, LEDs are turned ON so that toner will not be deposited in areas of the sheet corresponding to those of the document about 2 mm wide along its four sides.

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H. Cleaning Assembly (developing assembly)

1. Outline

The black developing assembly is locked or released manually by shifting the locking lever.

The black developing assembly and the drum cleaner are rotated by the drive of the main motor (M1) transmitted through drum gears.

The waste toner scraped by the cleaning blade is forwarded inside the photosensitive drum for collection.

The level of toner inside the black developing assembly and the hopper is checked by the toner sensor (Q17) and the hopper toner sensor (Q18), respectively.

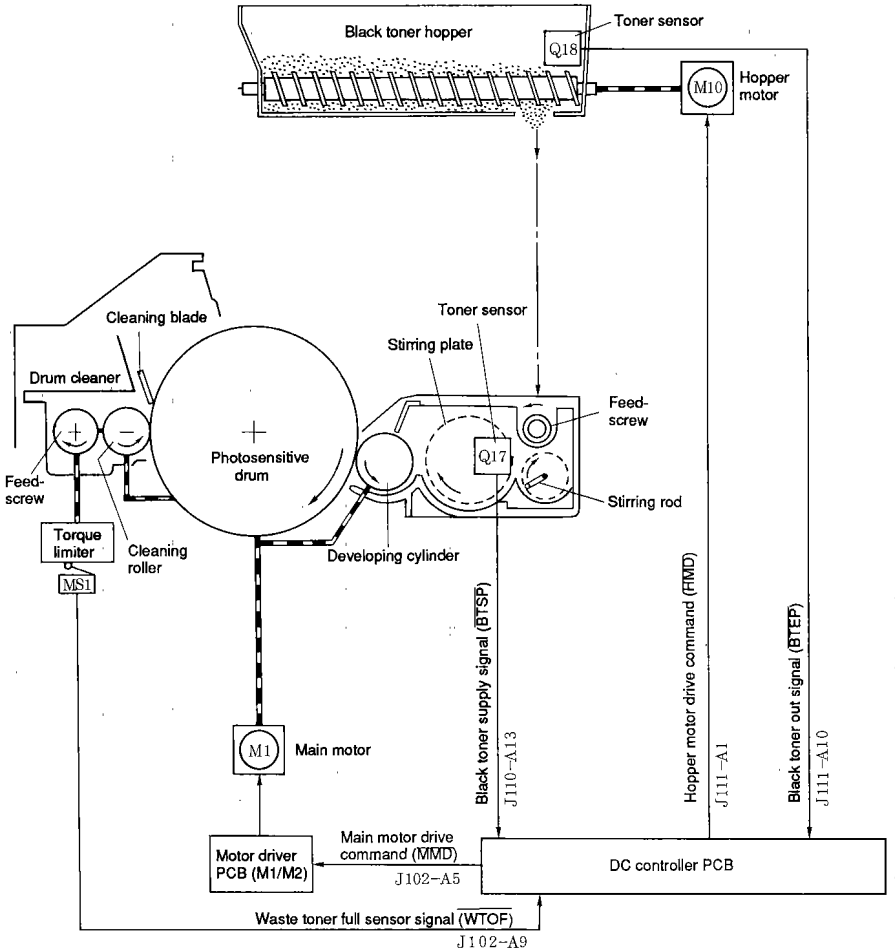

Figure 3-31

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2. Checking and Supplying Black Toner

The level of black toner inside the black developing assembly is checked by the toner sensor (Q17); when the black toner falls below a specific level, the hopper motor (M10) starts to rotate, supplying black toner to the black developing assembly from the black toner hopper.

When the hopper runs out of black toner and the toner sensor (Q18) in the hopper identifies the absence of toner for (10 seconds), the copying operation is stopped immediately and the 'ADD TONER' message is displayed. If the RDF is used at the time, the document, if any, on the copyboard glass will be discharged.

Note:
The detector of the toner sensors used in the black toner hopper and the black developing assembly is a piezoelectric oscillator that oscillates at several kHz in the absence of toner, causing the output of the sensor to go '0'. If toner is present, the weight of the toner stops the oscillation of the oscillator, causing the output of the sensor to go '1'.

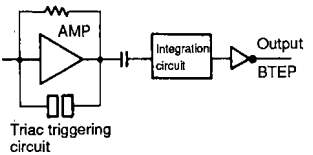
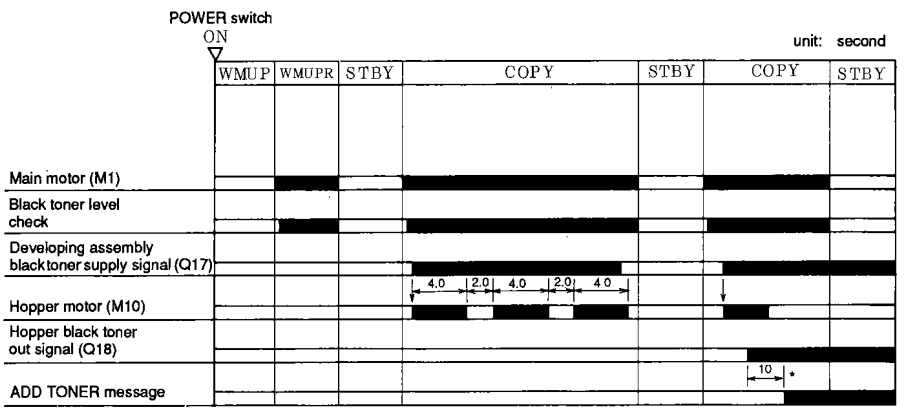


Figure 3-32



* The ADD TONER message goes ON if the black toner out signal remains ON for 10 sec while the hopper motor is rotating.

Figure 3-33

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3. Checking Waste Toner

When the photosensitive drum rotates, its drive is transmitted to the drum gear, cleaning roller gear, screw gear, coupling, and feedscrew in the order named; the feedscrew serves to forward waste toner collected by the cleaning blade and the cleaning roller to the photosensitive drum for storage.

The coupling transmits drive when it is forced against the screw gear.

When the photosensitive drum and the pipe become full of toner, the feedscrew starts to drag, causing the coupling to move up and cutting the drive to the feedscrew; this condition causes the lever to press the microswitch (MS1).

Note:
The photosensitive drum becomes full with waste toner after making about 120,000 copies (6% black document).

Note:
At the time, the 'DISPOSE OF WASTE TONER' message is indicated; advise the user to make a serviceman call when the message appears. You can still make about 200 copies after the message appears; however, be sure to replace the drum as soon as possible, as failure to do so can damage the drive assembly.
Further, the message will not disappear even when the drum has been replaced; clear the message using 'ERROR' in the service mode (* 4 *).

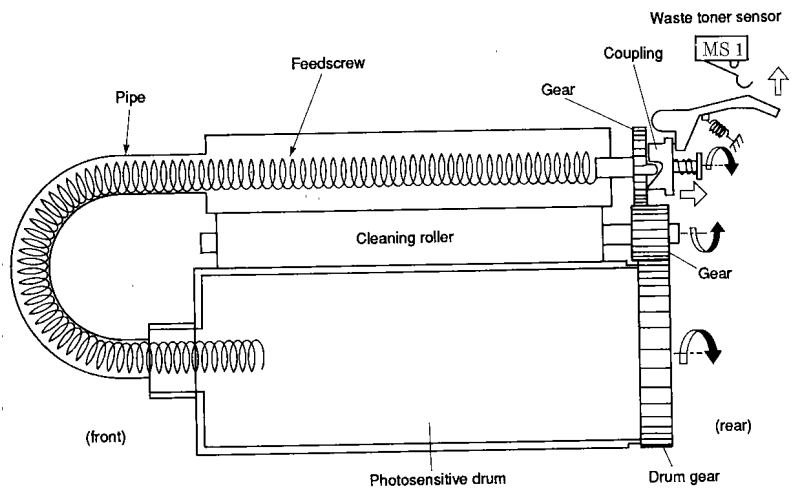

Figure 3-34

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I. Controlling the Corona Wire Cleaning Mechanism

1. Outline

The machine is equipped with an automatic cleaning mechanism for the primary corona wire and the separation/transfer corona wire.

These mechanisms clean each respective corona wire under the following conditions:

i. The temperature of the fixing assembly is 100°C or less when the machine is switched ON.
ii. When the mechanism is activated in the user mode.
iii. When the cleaner is not at the home position when the machine is switched ON.
iv. When last rotation (LSTR) is over after each 2,000 copies; if the mechanism has been activated under condition i., ii., or iii. above, however, 2,000 copies after the execution.

2. Cleaning the Corona Wire

Each corona wire is cleaned by moving the corona cleaner back and forth.

Each corona wire cleaner is driven by the cleaning motor; the cleaner is moved forward starting at the corona wire cleaner home position switch (MS7, MS5) at the front of each corona assembly.

When the corona wire cleaner has reached the corona wire cleaner reversal switch (MS8, MS6), the cleaner is moved back to the home position. A single cleaning operation makes a single round trip in about 20 sec.

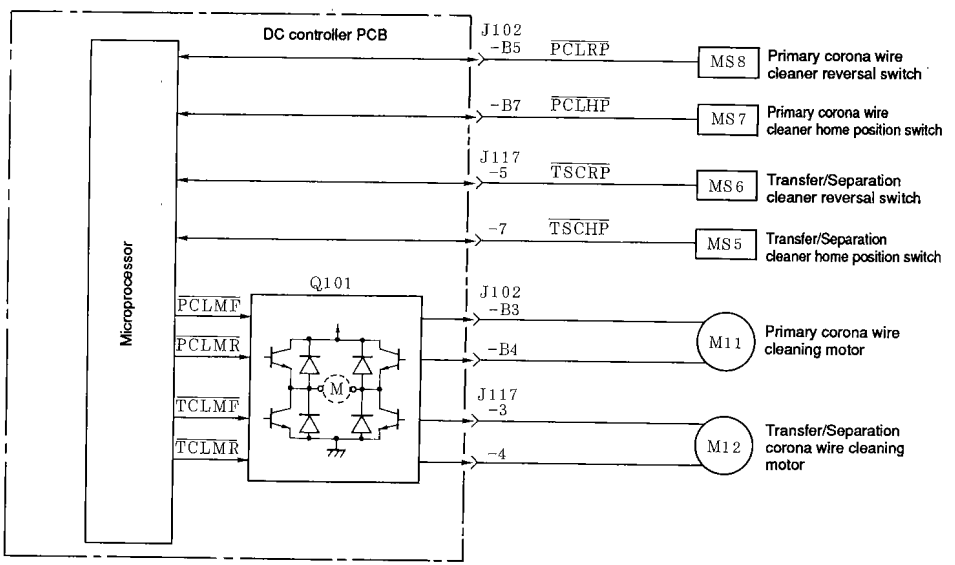

Figure 3-35

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3. Controlling the Corona Wire Cleaning Motor

The corona wire cleaning motor is controlled by the corona wire cleaner forward command (PCLMF/$\overline{\text{TCLMF}}$) and the corona wire cleaner reverse command ($\overline{\text{PCLMR}}$/$\overline{\text{TCLMR}}$).

	$\overline{\text{PCLMF}}$ $\overline{\text{TCLMF}}$	$\overline{\text{PCLMR}}$ $\overline{\text{TCLMR}}$
Forward	0	1
Reverse	1	0
At rest	1	1

Table 3-8

4. Checking the Cleaning Operation for Error

If the corona wire cleaner moves forward or in reverse as follows, the microprocessor on the DC controller PCB identifies the conditions to be an error.

a. MS8 (MS6) does not detect the corona wire cleaner about 20 sec after the cleaner started to moved forward.
b. MS7 (MS5) does not detect the corona wire cleaner about 20 sec after the cleaner started to move in reverse.

Under any of the above conditions, the corona wire cleaning motor is stopped immediately, and an alarm No. is indicated under 'ALARM' of the control display mode of the service mode.

Corona wire cleaner	Alarm No.
Primary corona wire cleaner	61
Transfer/Separation corona wire cleaner	62
Both of above	63

Table 3-9

To clear alarms caused by the detection mechanism, enter the user mode (* 6 OK) and execute automatic cleaning of the corona wire; the alarms cannot be cleared by switching the machine OFF and ON.

Note:
The corona cleaning motor is controlled so that it will not go ON unless the alarm, if any, is cleared; copies, however, can still be made without clearing the alarm.

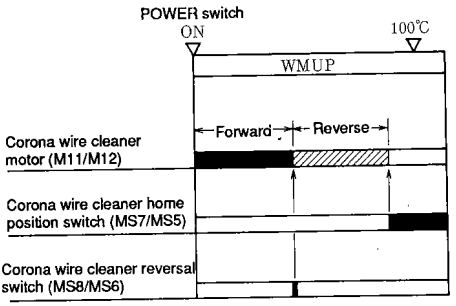

Figure 3-36

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IV. PICK-UP/FEEER SYSTEM

A. Outline

The presence of a cassette or the presence/absence of paper inside the cassette set in the cassette holder (1st/2nd cassette) are checked by the switches (CST1, CST2) attached in the cassette holder; four switches are attached to each holder.

The copy paper in the cassette is lifted by a lifter, and the lifter is designed to stop at a specific position when detected by a photointerrupter (Q12, Q13).

The presence/absence of paper inside the cassette is checked also by a photointerrupter (Q10, Q11).

When the pick-up clutch (CL2) goes ON, the pick-up roller starts to rotate, thereby feeding a single sheet of copy paper from the cassette.

The copy paper is then controlled by the registration roller so that its leading edge and the leading edge of the image on the photosensitive drum match; it is then sent to the copy tray through the transfer, separation, feeder, fixing and delivery assemblies.

When a single overlay copy is made, the paper deflector plate is shifted up as soon as the copy paper (1st side) reaches the delivery assembly, thereby forwarding the paper to the set-back mechanism.

The copy paper (2nd side) is then controlled so that its leading edge and that of the image on the photosensitive drum match before it is forwarded to the copy tray through the transfer, separation, feeder, fixing, and delivery assemblies.

When a single two-sided copy is made, the No. 2 delivery roller starts to rotate in reverse to shift up the paper deflector plate about 0.3 sec after the copy paper (1st side) has moved past the delivery paper sensor (Q2).

The condition causes the copy paper to switch back and move into the duplexing unit; the paper (2nd side) then is handled exactly the same as overlay copies and sent to the copy tray.

The machine is equipped with a mechanism that moves the entire assembly of both No. 1 upper and lower registration rollers so that the horizontal end of each copy paper moves along the same path; see p. 3-71 for details.

The paper path from the 1st cassette has five photointerrupters which check if the copy paper has reached or has moved past them.

For the pick-up/feeder systems of the cassette feeding unit and the paper deck pedestal, see p. 3-50 and p. 3-95, respectively.

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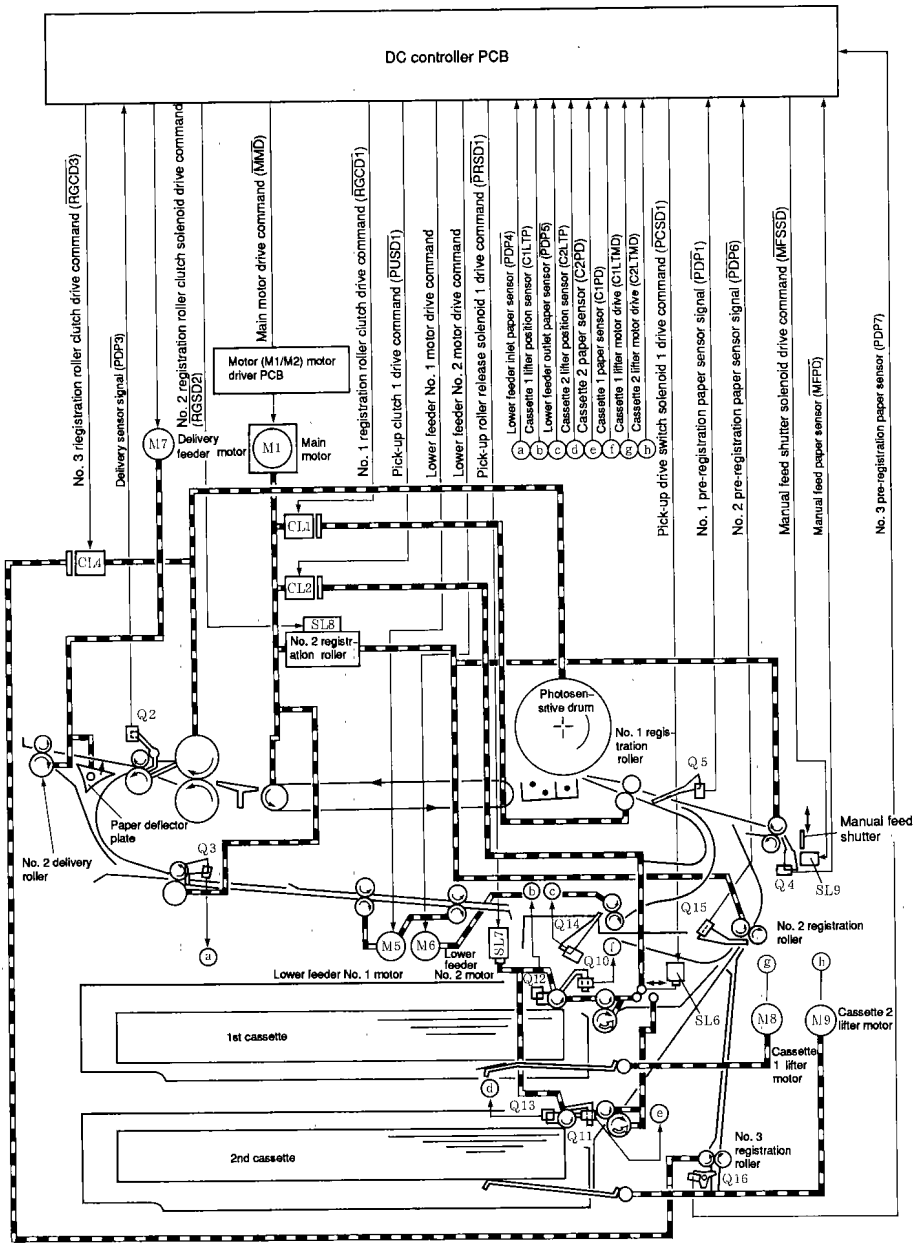

Figure 3-37

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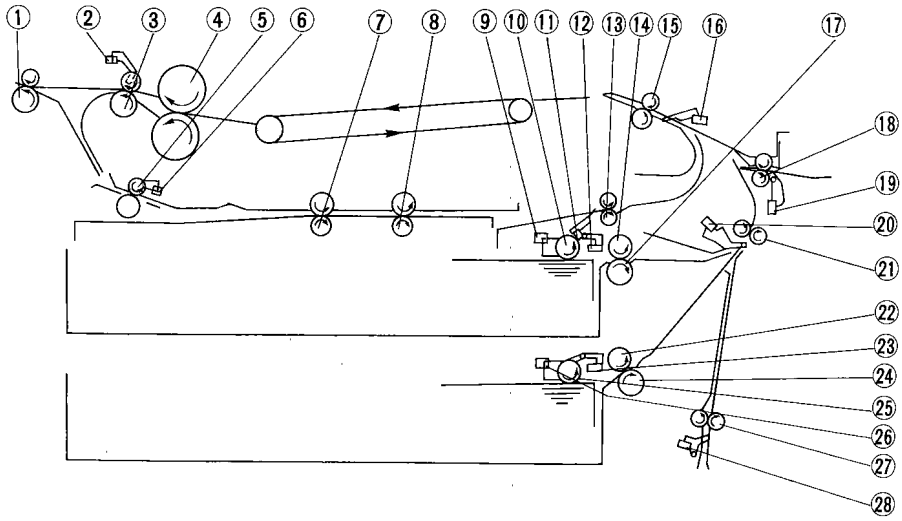
Arrangement of Rollers and Sensors (copier)



① No. 2 delivery roller
② Delivery sensor (Q2)
③ No. 1 delivery roller
④ Fixing roller
⑤ Lower feeder inlet roller
⑥ Lower feeder inlet paper sensor (Q3)
⑦ Set-back roller 1
⑧ Set-back roller 2
⑨ Cassette 1 lifter position sensor (Q12)
⑩ Cassette 1 pick-up roller
⑪ Lower feeder outlet paper sensor (Q14)
⑫ Cassette 1 paper sensor (Q10)
⑬ Lower feeder outlet roller
⑭ Cassette 1 feeder roller
⑮ No. 1 registration roller
⑯ No. 1 pre-registration paper sensor (Q5)
⑰ Cassette separation roller
⑱ Manual feed pick-up roller
⑲ Manual feed paper sensor (Q4)
⑳ No. 2 pre-registration paper sensor (Q15)
㉑ No. 2 registration roller
㉒ Cassette 2 feeder roller
㉓ Cassette 2 paper sensor (Q11)
㉔ Cassette 2 separation roller
㉕ Cassette 2 pick-up roller
㉖ Cassette 2 lifter position sensor (Q13)
㉗ No. 3 registration roller
㉘ No. 3 pre-registration sensor (Q16)

Figure 3-38 Arrangement of Rollers and Sensors (copier)

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B. Identifying the Cassette Size

When a cassette is inserted into the cassette holder, specific switches become actuated.

The microprocessor identifies the presence/absence of a cassette and the size of the cassette based on the combinations shown in Table 3-10; at the same time, the microprocessor determines the count mode, reversal position for the scanner, and control method for blank exposure.

Arrangement / Cassette size	SW 701 (left)	SW 702	SW 703	SW 704 (right)
No cassette	0	0	0	0
B5 (182x257)	0	0	0	1
* U-L2 (203–220x317–354)	0	0	1	0
A4 (210x297)	0	0	1	1
B5R (257x182)	0	1	0	0
B4 (364x257)	0	1	0	1
A4R (297x210)	0	1	1	0
A3 (420x297)	0	1	1	1
U-S1 (190–279x190–279)	1	0	0	0
* U-S2 (190–279x190–279)	1	0	0	1
* U-L1 (203–220x317–354)	1	0	1	0
Letter 8.5"x11" (216x279)	1	0	1	1
STMT 5.5"x8.5" (216x140)	1	1	0	0
Legal 8.5"x14" (356x216)	1	1	0	0
Letter R8.5"x11" (279x216)	1	1	1	0
Ledger 11"x17" (432x279)	1	1	1	1

0: indicates SW is OFF.
1: indicates SW is ON.

* Sizes may be stored in memory within dimensions given in mm; see P. 3-150.

(unit: mm)

Table 3-10

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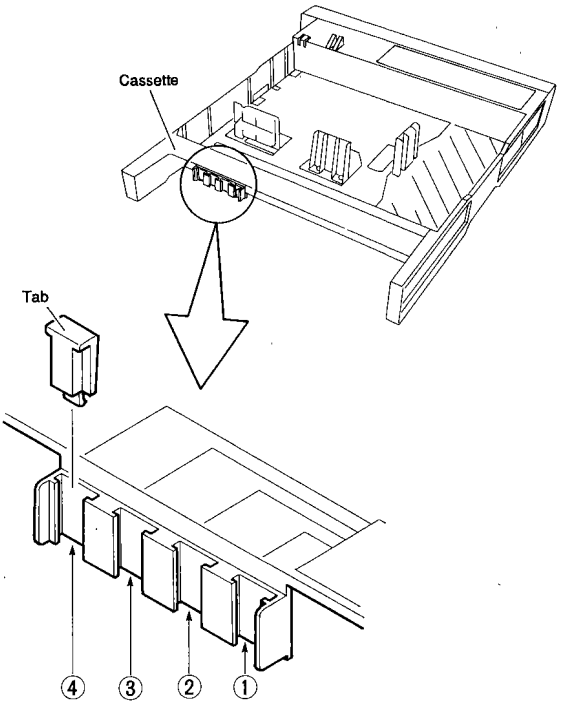
The cassette may be configured to suit specific sizes by relocating the cassette tabs shown in Figure 3-39; also, relocate the guide plate inside the cassette to suit the size of copy paper accordingly.

Note:
The location of the cassette tabs determines which copying sequence will be used; as such, incorrect location can cause frequent jams.



Copy paper size	Tab No.			
	④	③	②	①
B5	□			
U-L2		□		
A4	□	□		
B5-R			□	
B4	□		□	
A4-R		□	□	
A3	□	□	□	
U-S1				□
U-S2	□			□
U-L1		□		□
LTR	□	□		□
STMT			□	□
LGL	□		□	□
LTR-R		□	□	□
11×17	□	□	□	□

□····· tab present.

Figure 3-39 Changing the Cassette Size

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C. Pick-Up from Cassette (1st/2nd cassette)

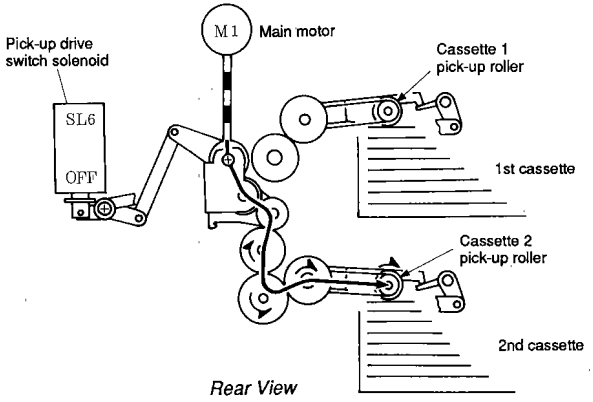
When pick-up clutch 1 (CL2) goes ON, the drive from the main motor (M1) is transmitted to the No. 1 cassette or the No. 2 casette by the work of the pick-up drive switch solenoid (SL6).

Both No. 1 and No. 2 cassettes each have a lifter motor (M8, M9) that moves up the lifter to a specific position as long as a cassette is present and the machine is supplied with power.

The presence/absence of copy paper inside the cassette is checked by photointerrupters (Q10, Q11); the position of the lifter is checked by photointerrupters (Q12, Q13).

If the photointerrupter (Q10, Q11) does not detect paper, the DC controller PCB decides that no paper is present, and the 'ADD PAPER' message will be indicated.

Pick-Up from 2nd Cassette



Pick-Up from 1st Cassette

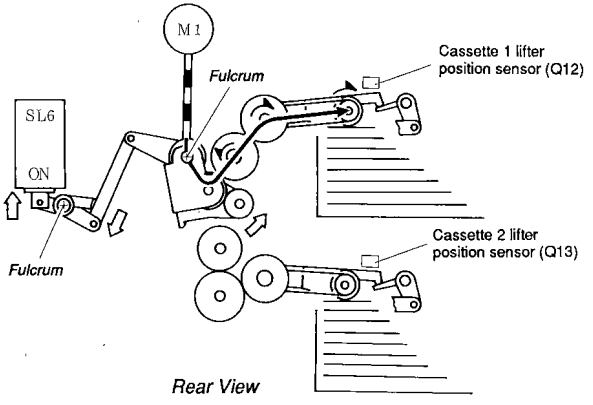


Figure 3-40 Pick-Up from 1st/2nd Cassette (transmission of drive)

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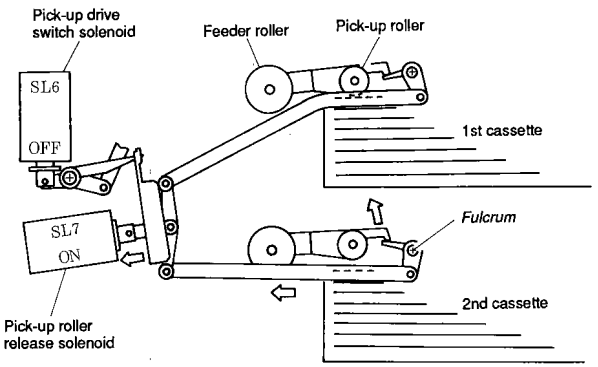
When the cassette starts to run out of copy paper during copying operation and, as a result, the lifter position signal goes '0', the lifter motor goes ON to move up the lifter to a specific position; the lifter is moved up until the lifter position sensor goes '1'.

If the lifter position sensor signal remains '0' after the lifter motor has remained ON for a specific period of time, the 'ADD PAPER' message will be indicated on the display.

The pick-up roller for cassette pick-up operation is linked to the feeder roller.

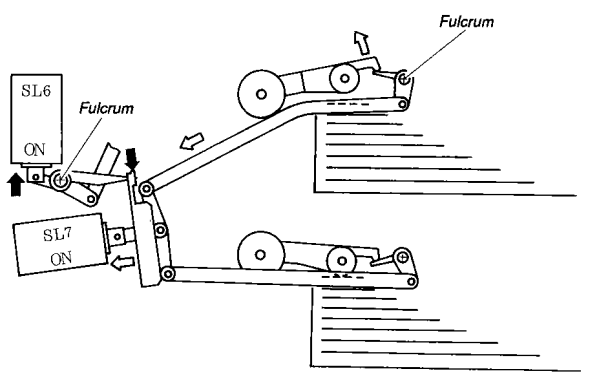
After each pick-up, the pick-up roller release solenoid (SL7) goes ON to move up the pick-up roller; this is to prevent the pick-up roller from picking up the next sheet of copy paper.

With Pick-Up Roller for 2nd Cassette Released



Rear View

With Pick-Up Roller for 1st Cassette Released



Rear View

Figure 3-41

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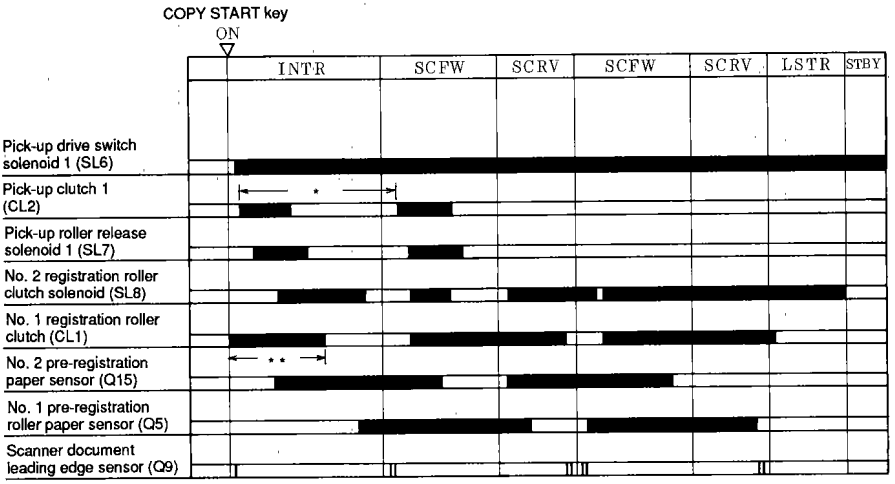

*Varies depending on the length of paper; $\frac{\text{paper (i) x 4/3}}{\text{240 mm/s (ii)}}$ + 300 ms (iii)

i. If 216 mm or less, 216 mm.
ii. Feed speed.
iii. Warm-up time of scanner.

**Setting the No. 1 registration roller at the home position (horizontal; see p. 3-71).

Figure 3-42 A4, 2 Copies, DIRECT, One-Sided Document to One-Sided Copy, Pick-Up from 1st Cassette

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D. Pick-Up from Cassette Feeding Unit (3rd/4th cassette)

1. Mechanism

When pick-up clutch 2 (CL801) goes ON, the drive of the pick-up motor (M803) is transmitted to the 3rd or 4th cassette by the work of pick-up drive switch solenoid 2 (SL805).

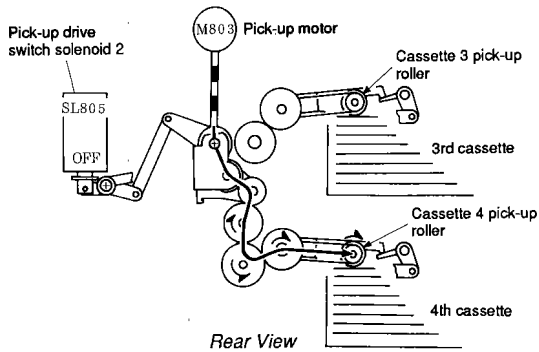
Both 3rd and 4th cassettes each have a lifter motor (M801, M802) which moves up the lifter to a specific point when a cassette is slid in while the machine is powered.

At the time, photointerrupters (Q850, Q852) are used to check the presence/absence of copy paper inside the cassette.

The position of the lifter is checked also by a photointerrupter (Q851, Q853).

If the photointerrupter (Q850, Q852) does not detect paper, the DC controller PCB identifies the absence of paper and indicates the "ADD PAPER' message.

Pick-Up from 4th Cassette



Pick-Up from 3rd Cassette

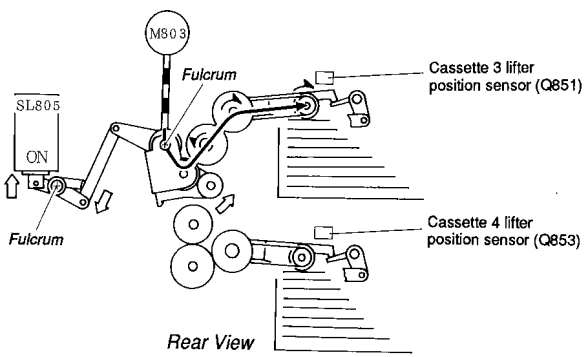


Figure 3-43 Pick-Up from 3rd/4th Cassette (transmission of drive)

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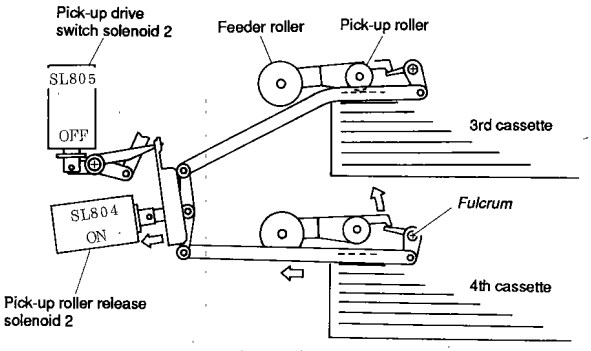
When the cassette runs out of copy paper during copying operation and the lifter position sensor signal goes '0', the lifter motor goes ON to move up the lifter to a specific position; the lifter is moved up until the lifter position sensor signal goes '1'.

If the lifter position sensor signal remains '0' after the lifter motor has remained ON for a specific period of time, the 'ADD PAPER' message is indicated on the display.

The pick-up roller of the cassette feeding unit is linked to the feeder roller.

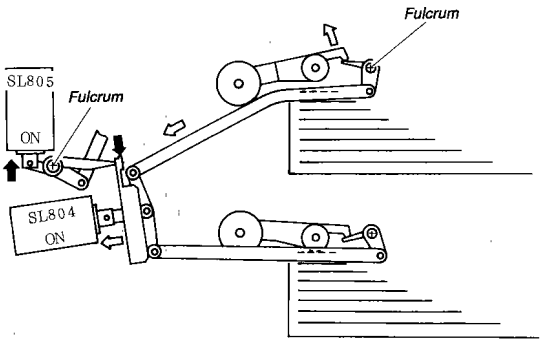
After each pick-up, the pick-up roller solenoid 2 (SL804) goes ON to lift the pick-up roller; this is to prevent the pick-up roller from picking up the next sheet of copy paper.

With Pick-Up Roller for 4th Cassette Released



Rear View

With Pick-Up Roller for 3rd Cassette Released



Rear View

Figure 3-44

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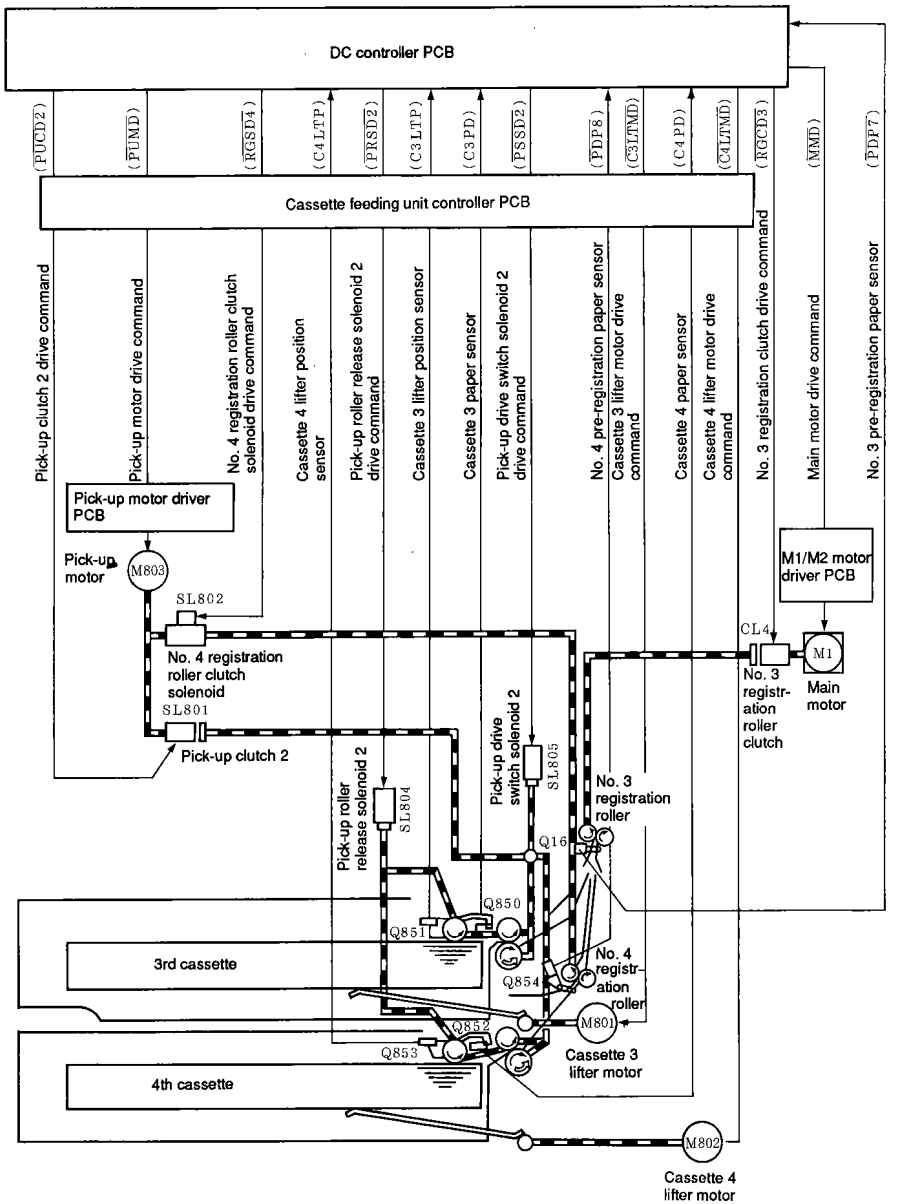

The No. 3 registration roller and CL4 are on the copier side.

Figure 3-45

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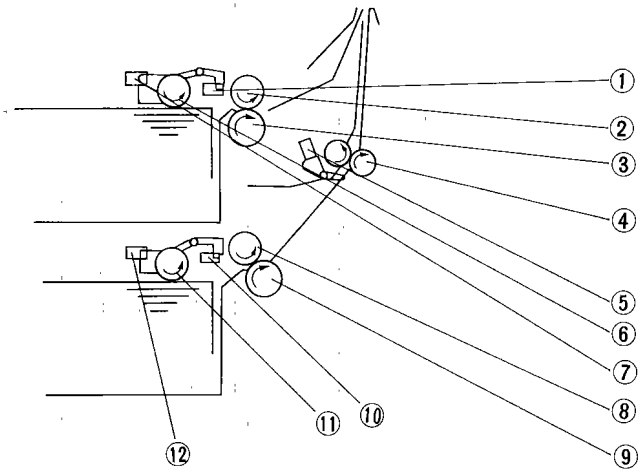
Arrangement of Rollers and Sensors (cassette feeding unit)



① Cassette 3 paper sensor (Q850)
② Cassette 3 feeder roller
③ Cassette 3 separation roller
④ No. 4 registration roller
⑤ No. 4 pre-registration paper sensor (Q854)
⑥ Cassette 3 pick-up roller
⑦ Cassette 3 lifter position sensor (Q851)
⑧ Cassette 4 feeder roller
⑨ Cassette 4 separation roller
⑩ Cassette 4 paper sensor (Q852)
⑪ Cassette 4 pick-up roller
⑫ Cassette 4 lifter position sensor (Q853)

Figure 3-46 Arrangement of Rollers and Sensors (cassette feeding unit)

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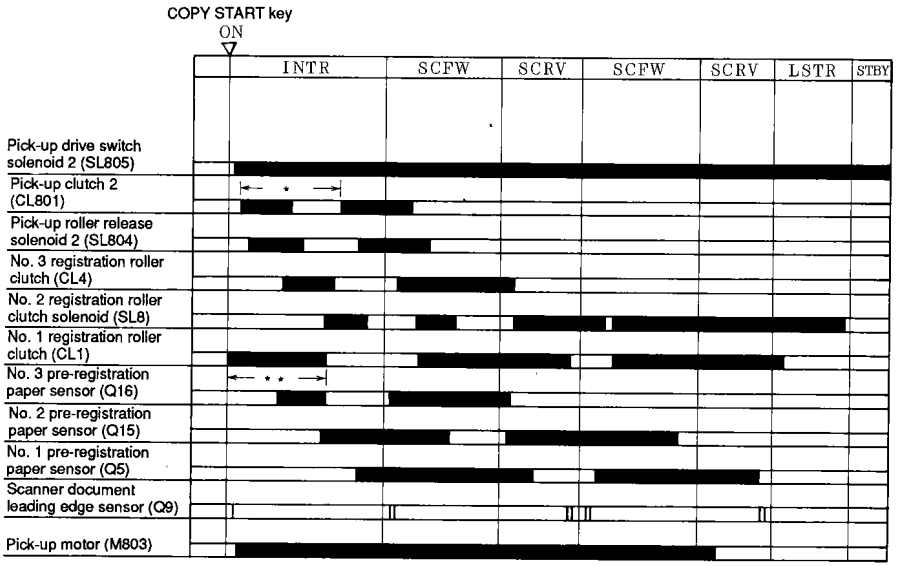

*Varies depending on the length of paper; $\frac{\text{paper (i)} \times 4/3}{240 \text{ mm/s (ii)}} + 300 \text{ ms (iii)}$

i. If 216 mm or less, 216 mm.
ii. Feed speed.
iii. Warm-up time of scanner.

**Setting the No. 1 registration roller at the home position (horizontal; see p. 3-71).

Figure 3-47 A4, 2 Copies, DIRECT, One-Sided Document to One-Sided Copy, Pick-Up from 3rd Cassette

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4. Pick-Up Motor Control

a. Outline

Figure 3-48 shows the circuit that controls the pick-up motor (M803), and the circuit has the following functions:

① Turns the pick-up motor ON and OFF.
② Maintains the pick-up motor rotation constant.

The pick-up motor (M803) is a 3-phase DC motor.

b. Mechanism

When the pick-up motor drive command (PUMD) from the cassette feeding unit controller circuit goes '0', the control circuit causes the pulse signals U, V, and W in sequence to rotate the pick-up motor; these pulses are generated based on the output of the Hall IC.

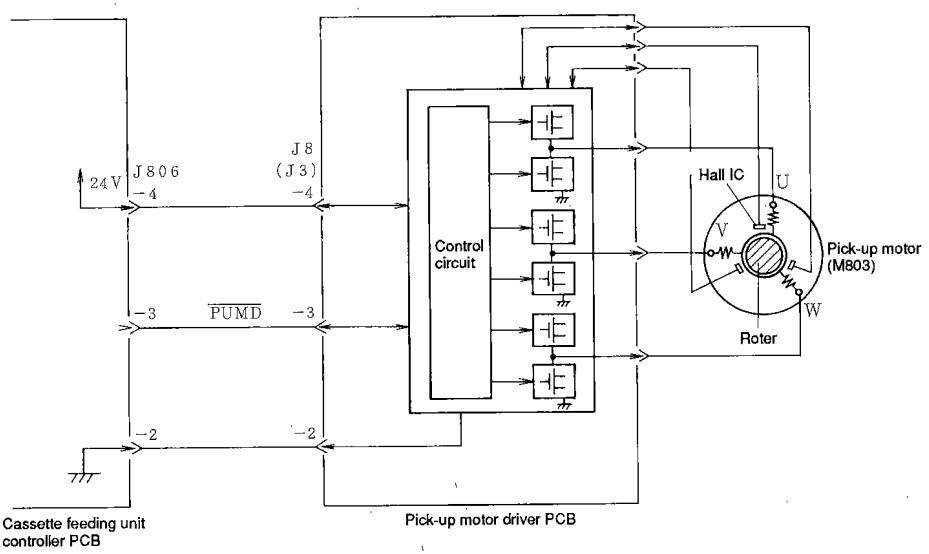

Figure 3-48

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E. Manual Feed Pick-Up

1. Manual Feed Pick-Up

The manual feed pick-up roller is driven by the main motor (M1) and rotates when the No. 2 registration roller clutch solenoid (SL8) is ON. The manual feed pick-up roller starts to rotate as soon as the manual feed paper sensor (Q4) detects copy paper.

The manual feed shutter moves up when the manual feed pick-up paper sensor (Q4) detects the trailing edge of paper to prevent the next sheet from coming in.

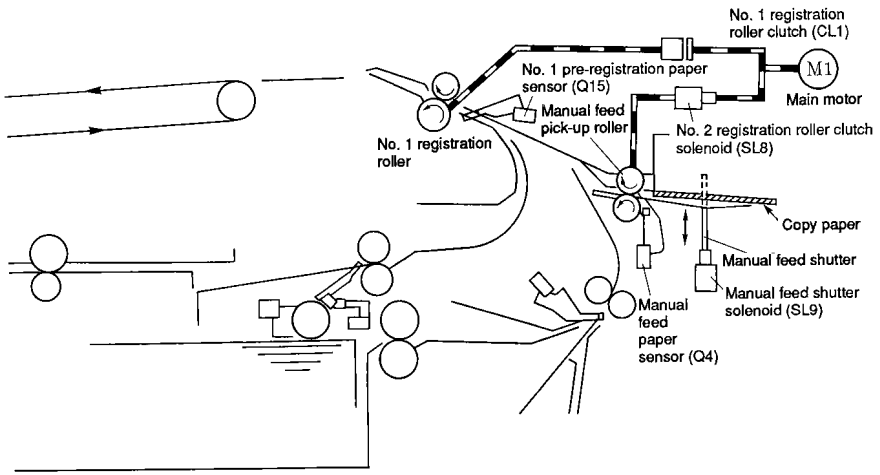
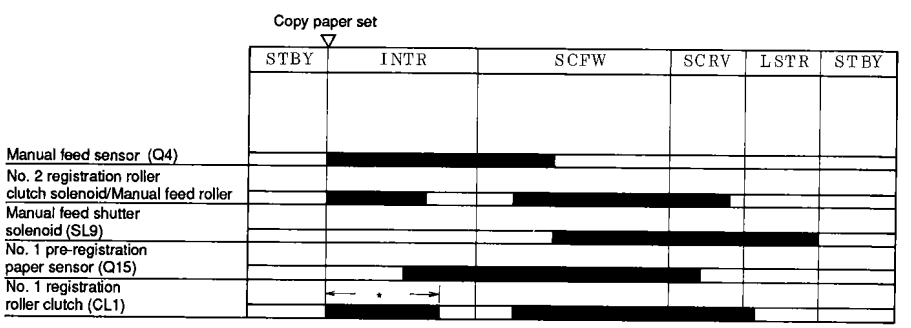

No. 1 registration roller clutch (CL1)
No. 1 pre-registration paper sensor (Q15)
M1
Main motor
Manual feed pick-up roller
No. 2 registration roller clutch solenoid (SL8)
No. 1 registration roller
Copy paper
Manual feed shutter
Manual feed shutter solenoid (SL9)
Manual feed paper sensor (Q4)

Figure 3-49



*Sets the No. 1 registration roller to the home position (horizontal).

Figure 3-50

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F. Making a Single Overlay Copy

1. Outline

When copying on the 1st side of a single overlay copy, the paper deflector plate is shifted up as soon as the copy paper reaches the delivery assembly; i.e., the delivery feeder motor (M7) starts to rotate in reverse. The paper is then forwarded to the lower feeder assembly by the paper deflector plate.

Thereafter, the copy paper butts against set-back roller 1 and forms an arch; it then moves past set-back roller 2 and to the lower feeder outlet roller.

The copy paper stops several millimeters past the lower feeder outlet roller to wait for copying on its second side. The paper deflector is then shifted down in preparation for the delivery of the paper.

Note:
The duplex unit feeder inlet roller is equipped with a mechanism that improves separation of copy paper around the photosensitive drum assembly at time of two-sided/overlay copying.

Copying on 1st Side

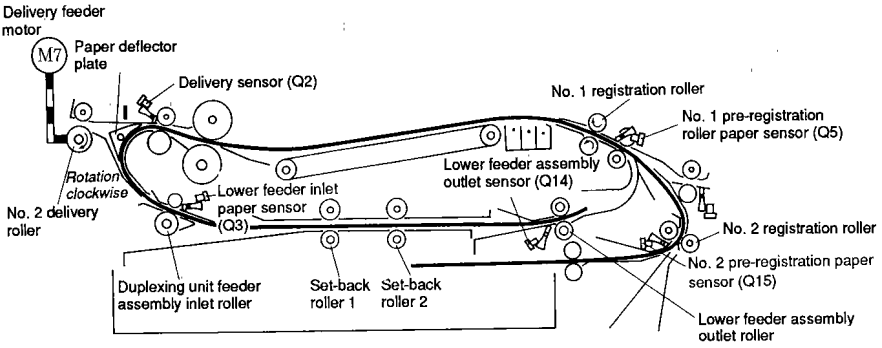
Delivery feeder motor
M7
Paper deflector plate
Delivery sensor (Q2)
No. 1 registration roller
No. 1 pre-registration roller paper sensor (Q5)
Lower feeder assembly outlet sensor (Q14)
Rotation clockwise
No. 2 delivery roller
Lower feeder inlet paper sensor (Q3)
No. 2 registration roller
No. 2 pre-registration paper sensor (Q15)
Duplexing unit feeder assembly inlet roller
Set-back roller 1
Set-back roller 2
Lower feeder assembly outlet roller

Figure 3-51

Copying on 2nd Side

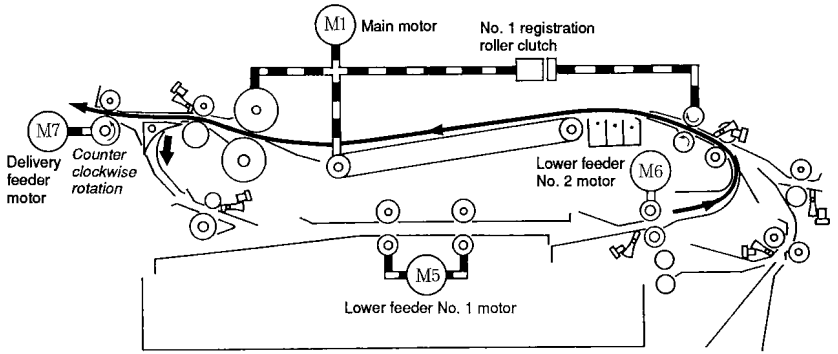

Figure 3-52

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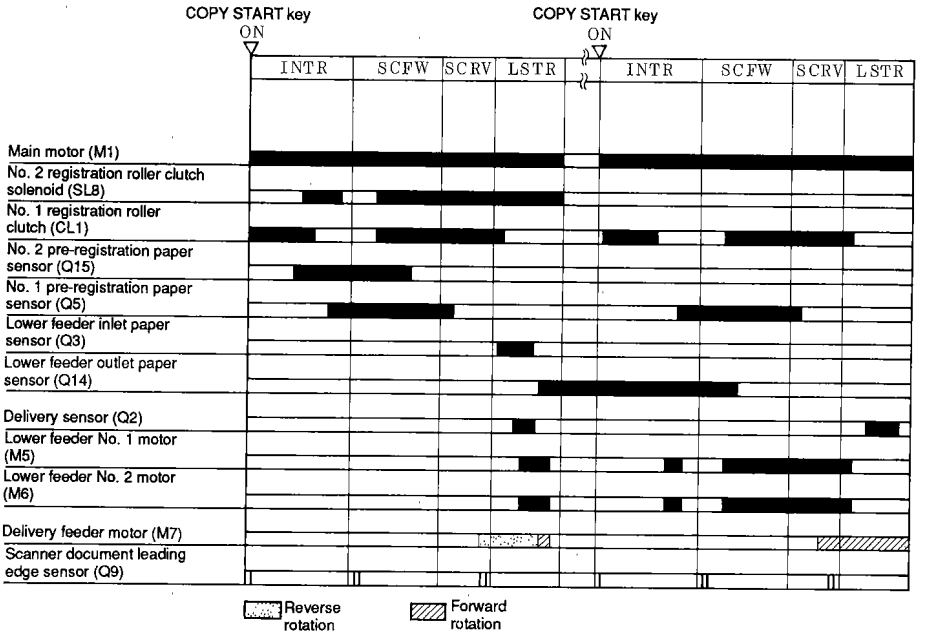

Figure 3-53 A4 (LTR), 1 Copy, DIRECT, Overlay, Pick-Up form 1st Cassette

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G. Making a single Two-Sided Copy

1. Outline

When the 1st side of a two-sided copy has been fixed and the trailing edge of the copy paper has moved past the delivery sensor (Q2), the No. 2 delivery roller starts to move in reverse to shift up the paper deflector plate, causing the copy paper to switch back and move to the lower feeder assembly.

The copy paper then stops several millimeters from the lower feeder outlet roller to wait for copying on the 2nd side. The paper deflector plate is then shifted down in preparation for the delivery of the copy paper.

Copying on 1st Side

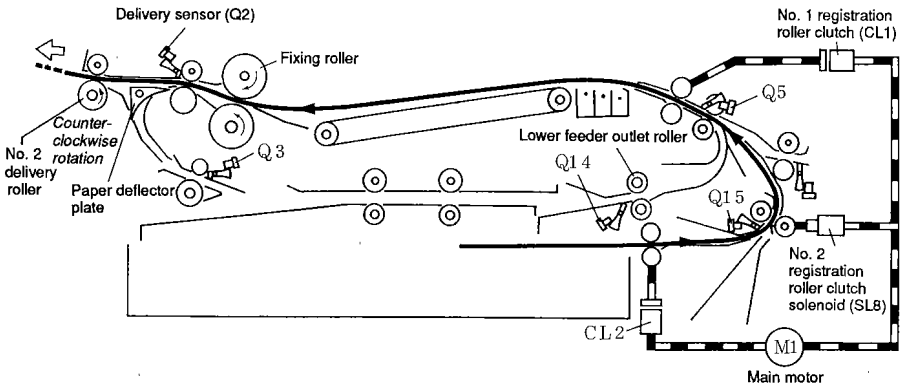

Figure 3-54

Copying on 1st Side (switch-back)

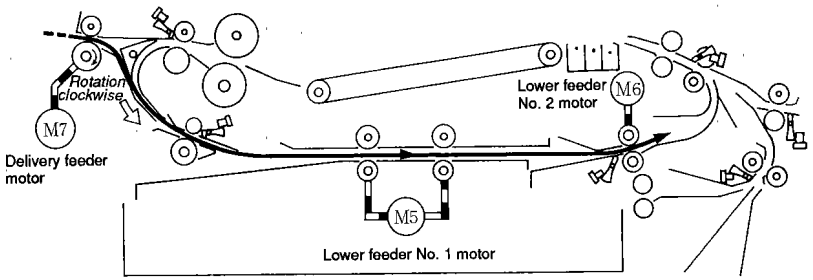

Figure 3-55

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Copying on 2nd Side

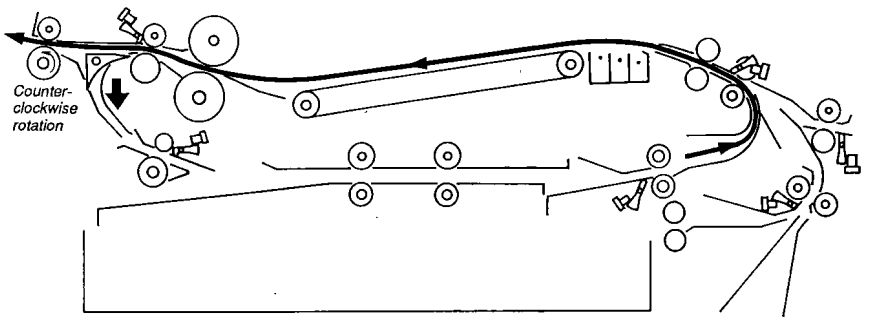

Figure 3-56

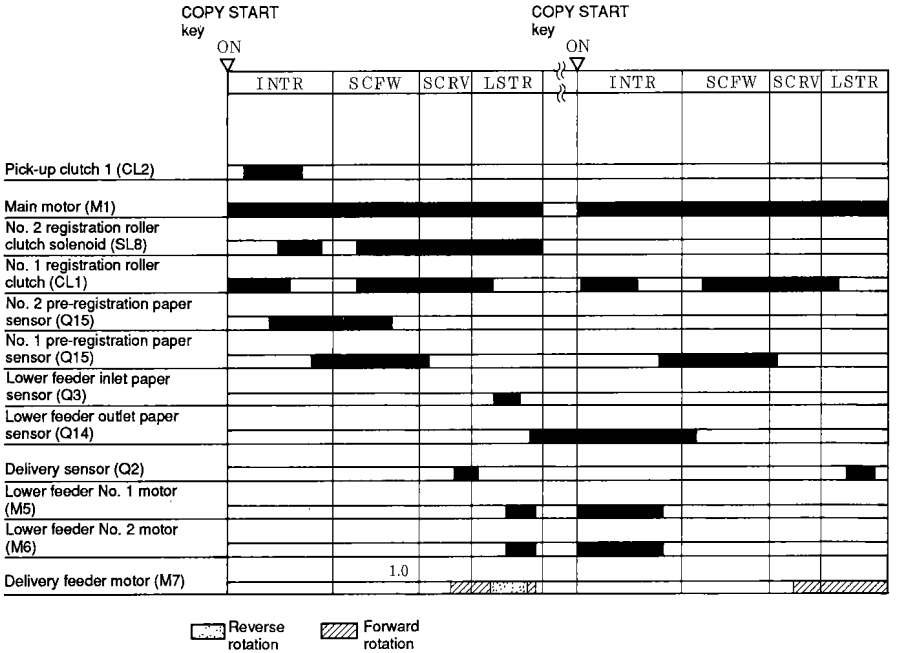

Figure 3-57 A4 (LTR), 1 Copy, DIRECT, Two-Sided, Pick-Up from 1st Cassette

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H. Set-Back Mechanism

1. Outline

The machine uses its set-back mechanism to execute continuous copying in the two-sided mode and the overlay mode.

In the set-back mechanism, sheets of copy paper are stacked up in the lower feeder assembly to save space without causing double feeding.

The set-back mechanism is activated under the following conditions:

i. Copy Paper Size
feeding direction: 182 mm to 216 mm
around drum (axial): 257 mm to 297 mm

ii. 2 or more copies, up to 20 copies (COPY START key not enabled thereafter)

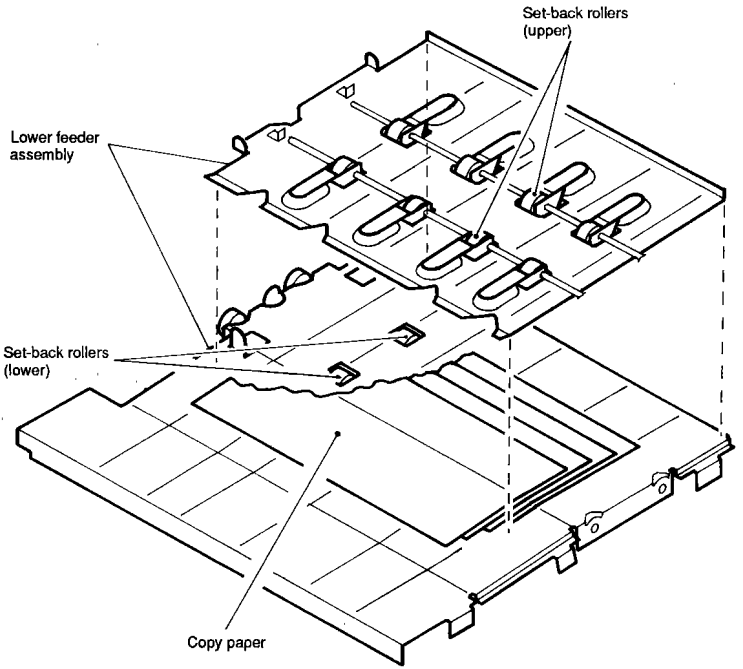

Figure 3-58

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2. Two-Sided/Overlay Copy (1st side)

The set-back mechanism works as shown in Figure 3-59 when two two-sided/overlay copies of A4 (LTR) size are made. The lower feeder inlet roller is driven by the main motor (M1), the set-back roller by the lower feeder No. 1 motor (M5), and the lower feeder outlet roller by the lower feeder No. 2 motor (M6).

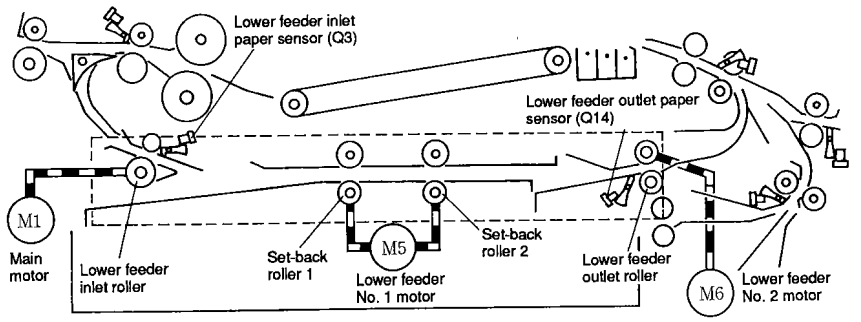

Figure 3-59

1) The first copy paper is sent tot the lower feeder assembly after copying on its 1st side and is made to butt against set-back roller 1 to form an arch.

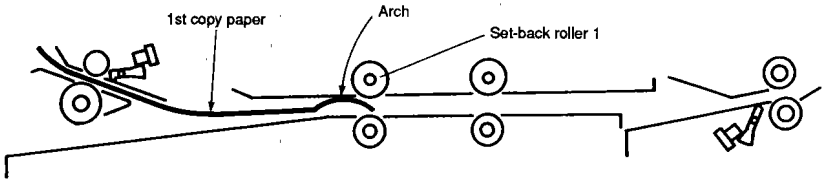

Figure 3-60

2) The first copy paper is moved forward and then moved past the lower feeder inlet paper sensor (Q3).

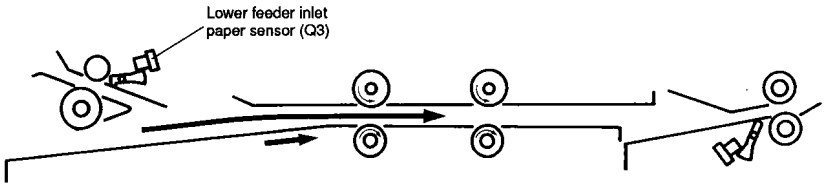

Figure 3-61

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3) Set-back rollers 1 and 2 are rotated counterclockwise, and the first copy paper is stopped 10 mm from set-back roller 1.

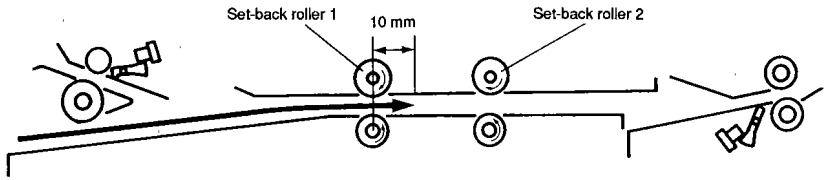

Figure 3-62

4) The second copy paper butts against set-back roller 1 to form an arch after copying on its 1st side.

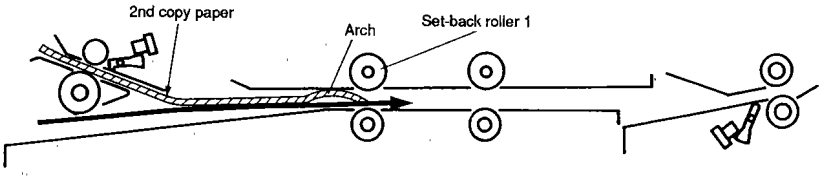

Figure 3-63

5) The first copy paper and the second copy paper are moved forward, and the second copy paper is moved past the lower feeder inlet sensor (Q3).

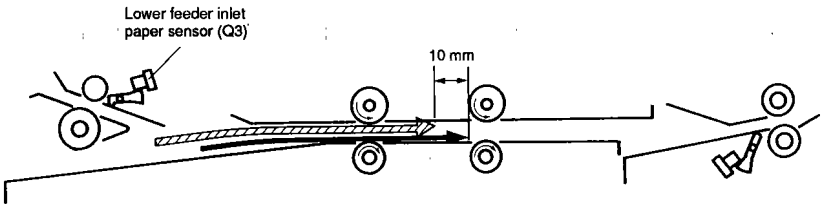

Figure 3-64

6) Set-back rollers 1 and 2 are rotated counterclockwise, and the second copy paper is stopped 10 mm from set-back roller 1.

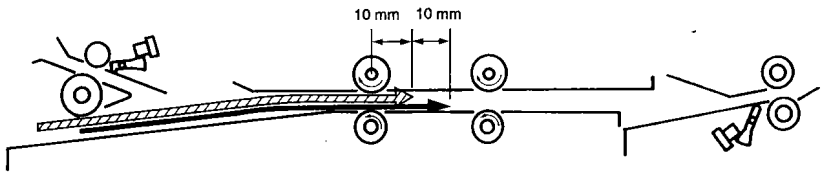

Figure 3-65

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7) When all sheets have been stacked, the set-back roller is rotated clockwise, and the copy paper is moved until the the lower feeder outlet sensor (Q14) detects the leading edge of the first copy paper.

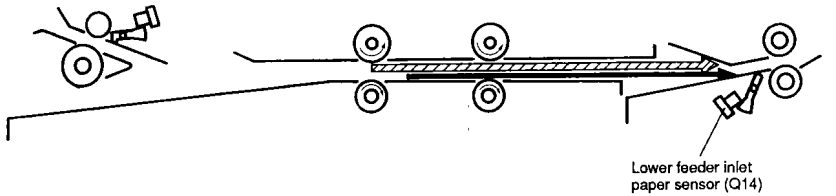
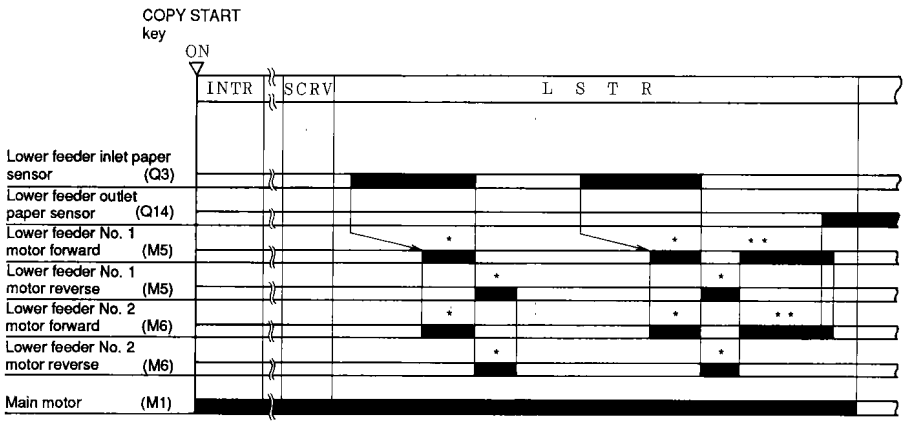


Figure 3-66


COPY START
key
ON
INTR
SCRV
L S T R
Lower feeder inlet paper sensor (Q3)
Lower feeder outlet paper sensor (Q14)
Lower feeder No. 1 motor forward (M5)
Lower feeder No. 1 motor reverse (M5)
Lower feeder No. 2 motor forward (M6)
Lower feeder No. 2 motor reverse (M6)
Main motor (M1)

*Varies depending on the length of copy paper.
**Varies depending on the number of sheets.

Figure 3-67 A4, 2 Copies, DIRECT, Two-Sided/Overlay Copy (sequence up to lower feeder assembly)

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3. Overlay Copy (pick-up; 2nd side)

Copying is finished on the 1st side of the first copy paper and the second copy paper; after a set-back operation, the following operations take place:

1) Set-back rollers 1 and 2 are rotated counterclockwise, and the leading edge of the first copy paper after a set-back is moved back several millimeters in front of the lower feeder outlet paper sensor (Q14).

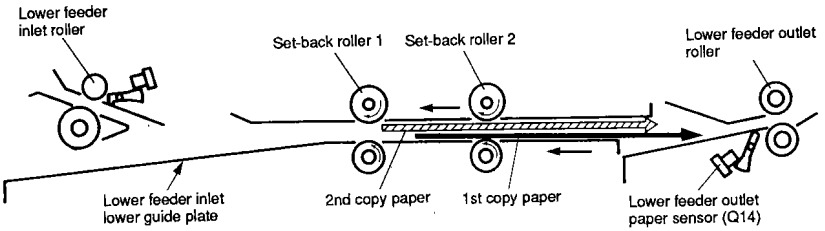
Lower feeder inlet roller
Set-back roller 1
Set-back roller 2
Lower feeder outlet roller
Lower feeder inlet lower guide plate
2nd copy paper
1st copy paper
Lower feeder outlet paper sensor (Q14)

Figure 3-68

2) Set-back rollers 1 and 2 together with the lower feeder outlet roller move the first copy paper about 54 mm* in the direction of the arrow (Figure 3-69) until the copy paper moves past set-back roller 2.
   * Varies depending on the size of the paper.
   paper length – 158 mm (between set-back roller 2 and lower feeder outlet sensor) + 20 mm (leeway)

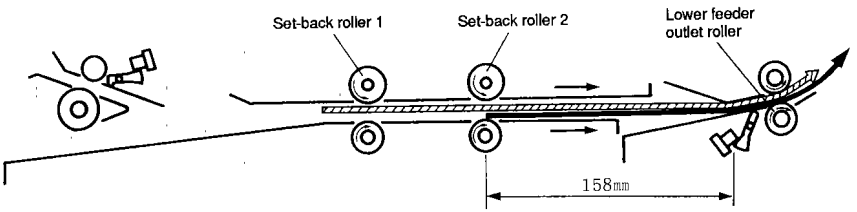

Figure 3-69

3) While rotating the lower feeder outlet roller in the direction of the arrow (Figure 3-70), set-back rollers 1 and 2 are rotated counterclockwise to separate the first copy paper and the second copy paper.

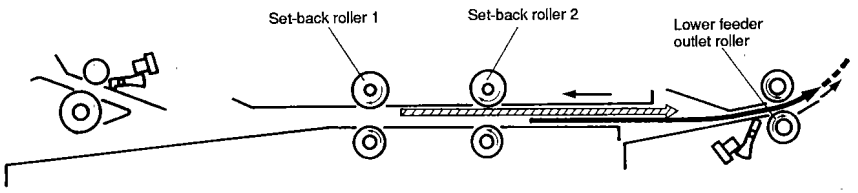

Figure 3-70

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4) The second copy paper is stopped when its leading edge has moved back several millimeters from the lower feeder outlet sensor; the first copy paper is forwarded to the No. 1 registration roller.

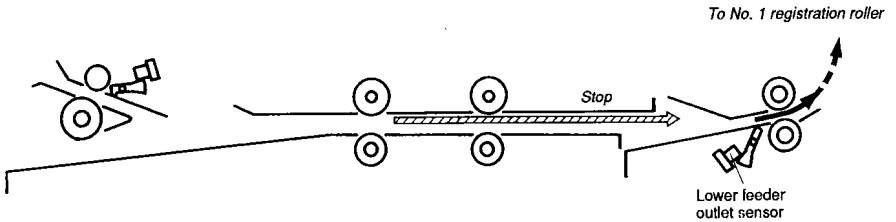

Figure 3-71

5) After the first copy paper is detected by the No. 1 pre-registration roller sensor, the second copy paper is moved by set-back roller 2 and the lower feeder outlet roller until it moves past set-back roller 2.

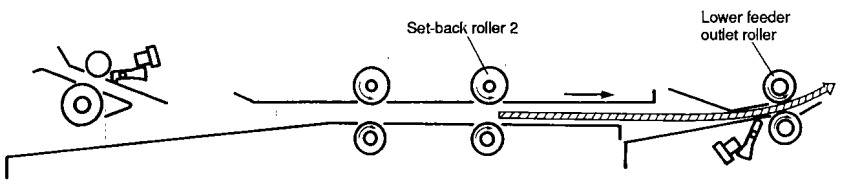

Figure 3-72

6) Thereafter, the second copy paper is moved to the No. 1 registration roller by the lower feeder outlet roller.

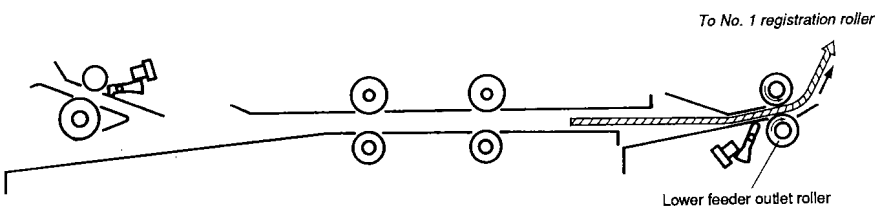

Figure 3-73

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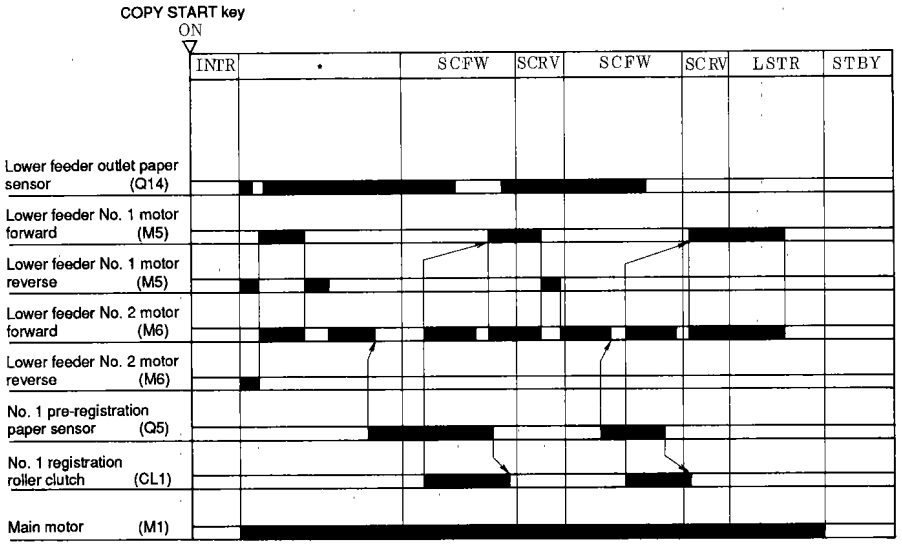

* While copy paper is moving, i.e., scanner at standby.

Figure 3-74 A4, 2 Copies, DIRECT, Overlay Copy (pick-up from duplexing unit feeder assembly)

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4. Two-Sided Copy (2nd side)

Copying is finished on the 1st side of the first copy paper and the second copy paper; after a set-back operation, the following operations take place:

1) Set-back rollers 1 and 2 are rotated counterclockwise, and the leading edge of the first copy paper after a set-back is moved back several millimeters in front of the lower feeder outlet paper sensor (Q14).

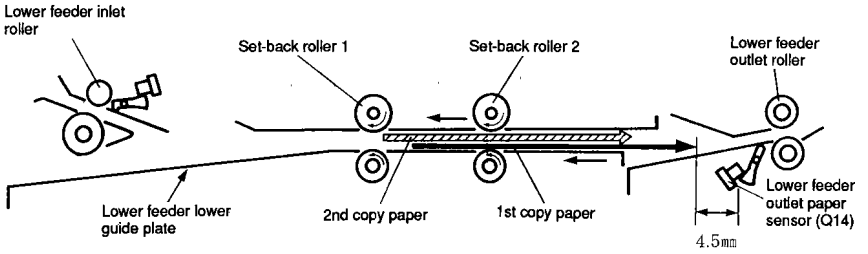

Figure 3-75

2) Set-back rollers 1 and 2 and the lower feeder outlet roller are rotated in the direction of the arrow (Figure 3-76) about an equivalent of 54 mm* until the first copy paper moves past set-back roller 2.
   * Varies depending on the size of the paper.
   paper length - 158 mm (between set-back roller 2 and lower feeder outlet sensor) + 20 mm (leeway)

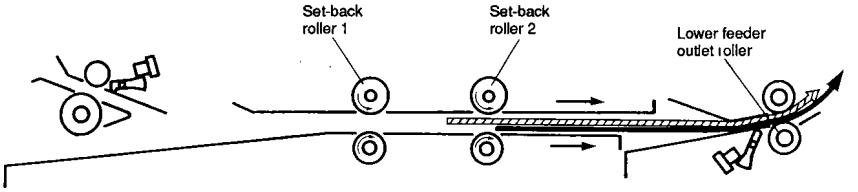

Figure 3-76

3) With the lower feeder outlet roller at rest, set-back rollers 1 and 2 are rotated counterclockwise to move the second copy paper past the lower feeder outlet roller.

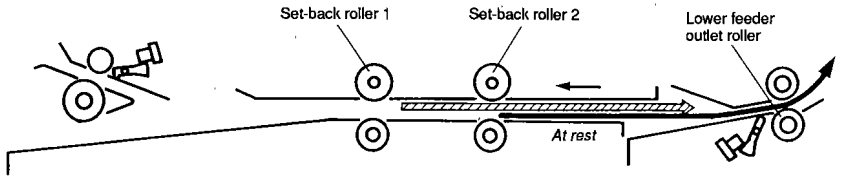

Figure 3-77

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4) The second copy paper is stopped when its leading edge moves back several millimeters from the lower feeder outlet paper sensor (Q14).

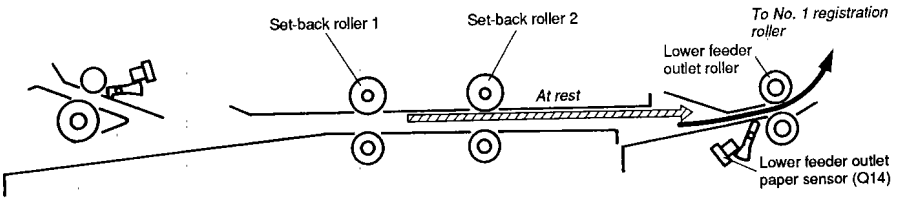

Figure 3-78

5) When the No. 1 pre-registration roller paper sensor (Q5) detects the first copy paper, set-back roller 2 and the lower feeder outlet roller move the second copy paper until it moves past set-back roller 2.

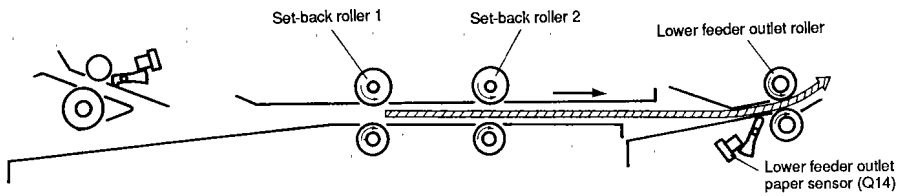

Figure 3-79

6) Thereafter, the second copy paper is moved to the No. 1 registration roller by the lower feeder outlet roller.

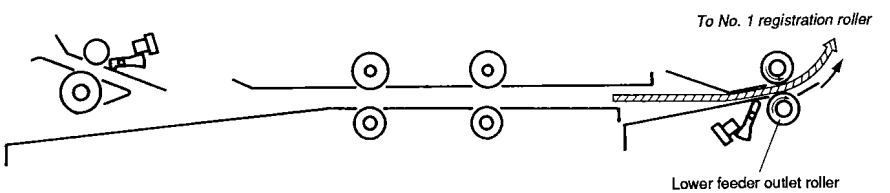

Figure 3-80

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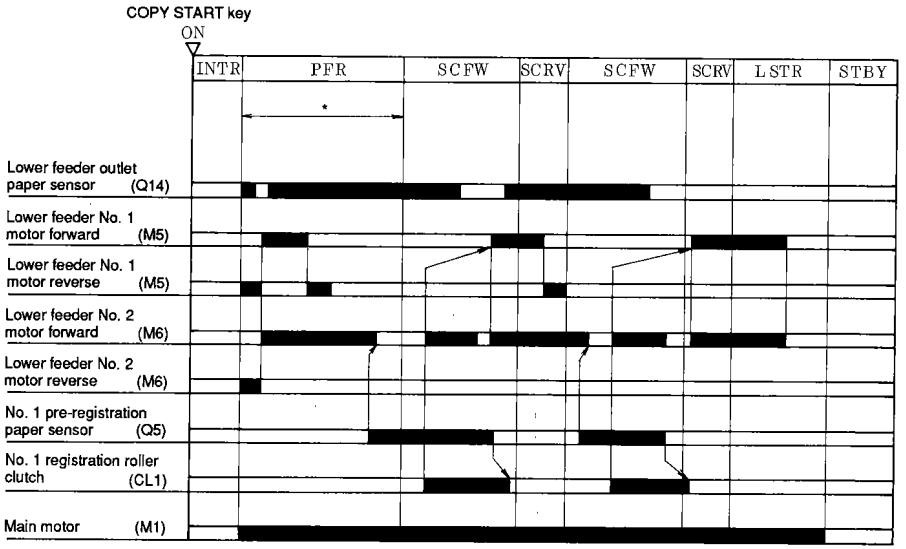

* While copy paper is being moved, i.e., scanner at standby.

Figure 3-81 A4, 2 Copies, DIRECT, Two-Sided Copy (pick-up from lower feeder assembly)

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I. Moving the No. 1 Registration Roller Horizontally

1. Outline

The machine moves the No. 1 registration roller sideways for each copy for the following:

a. to match the image horizontal edge on the photosensitive drum with the edge of the copy paper.

The horizontal registration motor (M4) is a stepping motor and is used to drive the No. 1 registration roller in the horizontal (drum axial) direction.

The drive of the horizontal motor (M4) is transmitted to gear C, which is a single entity with gear B, through gears A and B.

The rotation of gear C causes the No. 1 registration roller to move sideways; see Figure 3-82.

The horizontal home position of the No. 1 registration roller is determined by causing the No. 1 registration roller to move to the direction of the arrow (Figure 3-82) until it butts against the stop when the COPY START key is pressed.

When the copy paper reaches the No. 1 registration roller, the horizontal registration motor (M4) goes ON, causing the No. 1 registration roller to move toward the front.

When the horizontal registration paper edge sensor (Q6) detects the edge of the copy paper, the horizontal registration motor (M4) rotates counterclockwise for a specific number of pulses, thereby moving the No. 1 registration roller toward the rear.

The No. 1 registration roller is always rotated when the horizontal registration motor goes ON so as to facilitate the horizontal movement of the No. 1 registration roller.

When in the manual feed mode, horizontal control of the No. 1 registration roller is not executed.

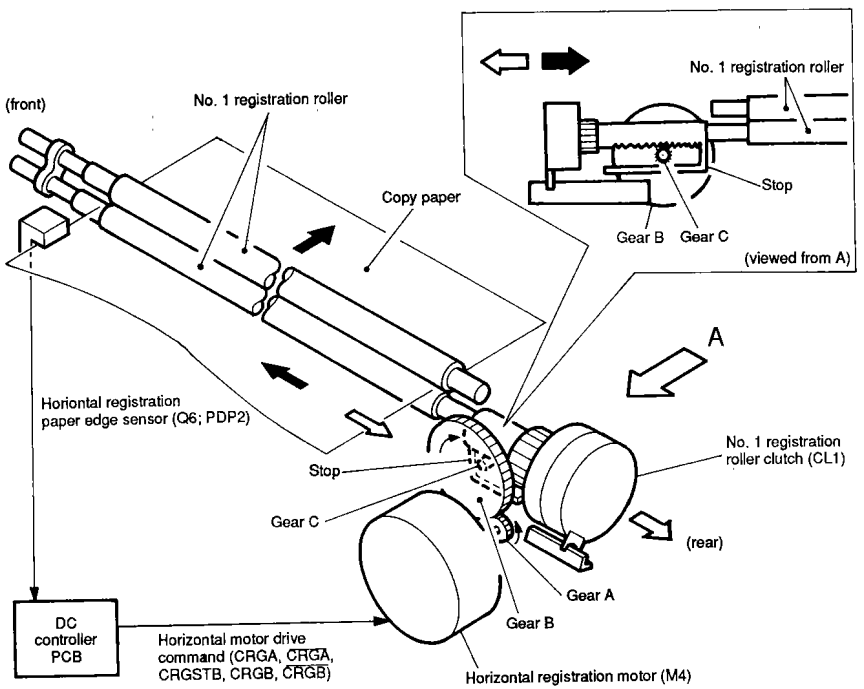

Figure 3-82

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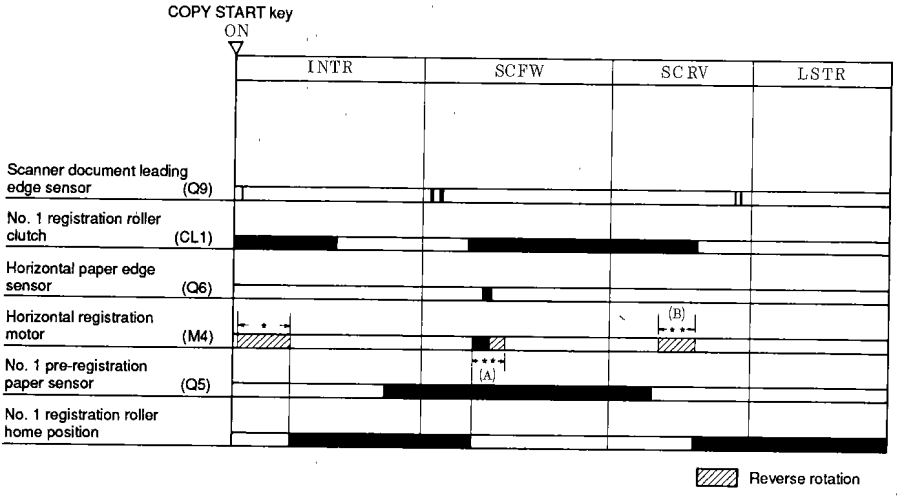

* Setting the No. 1 registration roller to the home position.

** Operation is as follows:

A: Rotated clockwise from when the No. 1 registration roller is at the home position until the horizontal registration paper edge sensor (Q6) detects the copy paper and then rotated for a specific number of pulses; rotated counterclockwise only if Q6 detects the copy paper at the beginning of the period.

B: Rotated to move the No. 1 registration roller to the home position over a distance equal to A above.

Figure 3-83 A4, 1 Copy, DIRECT, One-Sided Document to One-Sided Copy, Pick-Up from 1st Cassette (No. 1 registration roller horizontal movement)

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J. Fixing and Delivery Assemblies

1. Controlling the Temperature of the Fixing Roller

The upper roller, lower roller, and No. 1 delivery roller of the fixing assembly are driven by the main motor (M1).

The upper roller is heated by the fixing heater (H1; 800 W), and the temperature of its surface is monitored by a thermistor (TH1).

Fixing assembly surface temperature is high.

↳ Resistance of thermistor (TH1) is low.

↳ Voltage of fixing roller surface temperature sensor signal (FRST) is low.

Fixing assembly surface temperature is low.

↳ Resistance of thermistor (TH1) is high.

↳ Voltage of fixing roller surface temperature sensor signal (FRST) is high.

Based on the voltage of FRST, the microprocessor on the DC controller PCB controls the state of the fixing heater drive signal (HTRD; i.e., '1' and '0'), thereby maintaining the surface temperature of the upper roller at a specific value.

during standby and copying, controlled to 190°C

during preheat, controlled to 180°C

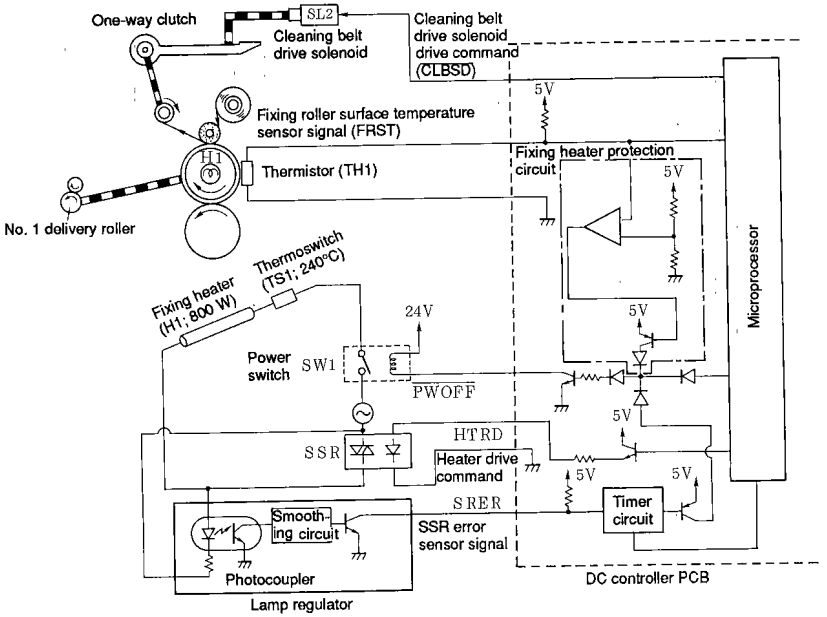

Figure 3-84

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2. Protection Mechanism

The machine is equipped with four types of protective mechanism to prevent malfunctions of the fixing heater.

a. The microprocessor monitors the voltage of the thermistor (TH1); in response to an error, it indicates 'E000', 'E001', 'E002', and 'E003' and switches the machine OFF automatically about 20 sec later.

b. If the voltage of TH1 drops to less than 1.1 V (equivalent of 225°C, the fixing heater protection circuit goes ON to turn the power switch (SW1) OFF; this occurs automatically and regardless of the output of the microprocessor.

c. If the temperature inside the thermoswitch exceeds 240°C, the thermoswitch goes OFF to cut the power to the fixing heater.

d. The DC controller circuit monitors the state of the SSR; if the SSR suffers a short circuit, the SSR error sensor signal (SRER) goes '1'; the condition causes 'E004' to go ON and, after about 2 sec, the power switch (SW1) goes OFF automatically.

The power switch goes OFF 2 seconds later even if the thermo switch is OFF or the fixing heater goes OFF.

Note:
Once its contact is open, the thermoswitch (TS1) will not be reset unless it is cooled to 0°C or less; the contact will not recover at ambient temperature.

3. Fixing Roller Bias

A positive DC bias (750 V) is applied to the core of the upper fixing roller during copying operation.

The bias is used to limit offset to the fixing roller; the fixing roller bias is generated by the AC component of the developing bias after rectification.

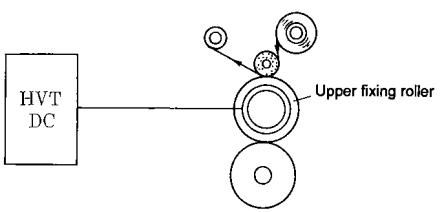

Figure 3-85

4. Moving the Cleaning Belt

The cleaning belt used to clean the upper fixing roller is driven by the cleaning belt drive signal (CLBSD) generated by the DC controller; the '1' or '0' state of the signal causes the cleaning belt drive solenoid to go ON and OFF. A single ON state of the solenoid causes the belt to be taken up about 0.04mm; the number of ON and OFF states of the cleaning belt drive solenoid depends on the length of the copy paper used (Table 3-11).

The operation of the solenoid may be switched, in the service mode.

Length of copy paper	Cleaning belt drive solenoid (ON/OFF)
less than 216 mm	once
216 mm or more	twice

Table 3-11

Note:
In the manual feed mode, the cleaning belt drive solenoid is turned ON and OFF twice regardless of the length of the copy paper used.

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The DC controller PCB counts how may times the cleaning belt drive solenoid has gone ON; when it has gone ON 300,00 times or more, it indicates the 'BELT RUNNING OUT' message on the display during copy operation. Advise the user to make a serviceman call when the message appears. The counter may be checked and cleared in the service mode.

5. Sequence of Operation (fixing assembly)

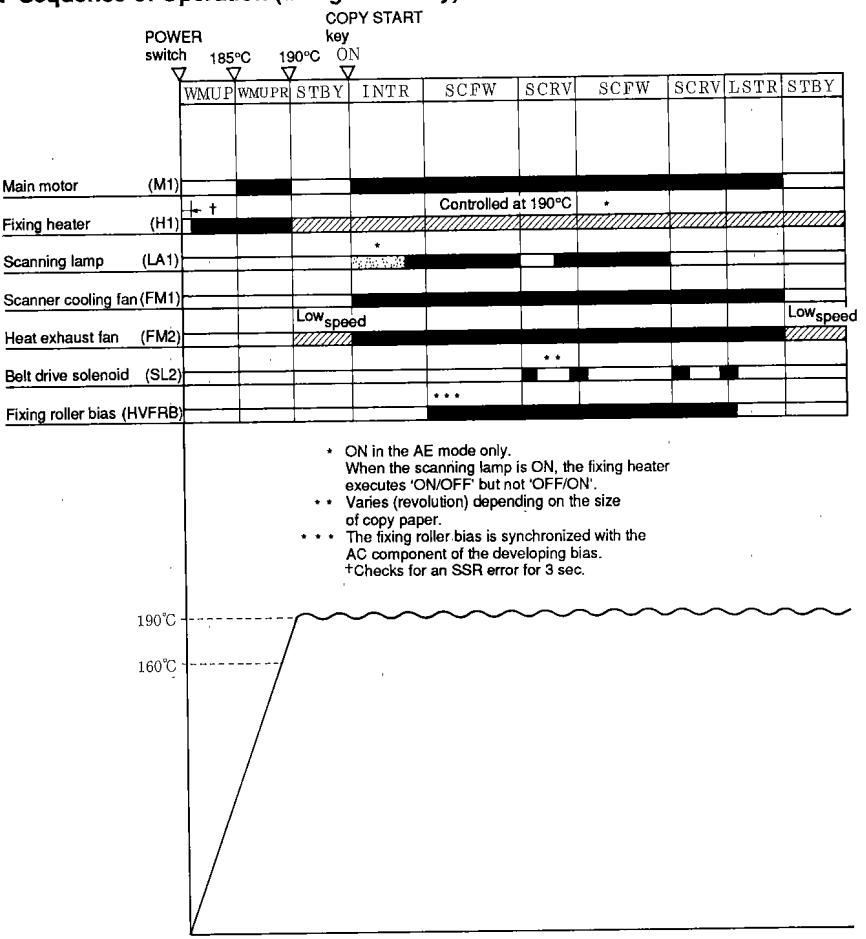

Figure 3-86

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6. Delivery Assembly

The delivery feeder motor (M7) is a 4-phase stepping motor.

As shown in Figure 3-87, gear C is driven by the delivery feeder motor. The direction of rotation and the paper deflector plate of the No. 2 delivery roller (lower) are switched according to the direction of rotation of the delivery feeder motor.

The paper deflector plate is shifted as Figures 3-88, -89 and -90 by the rotation of gear A whose drive is transmitted by gear B. The movements determine whether the copy paper is moved to the lower feeder assembly or to the copy tray.

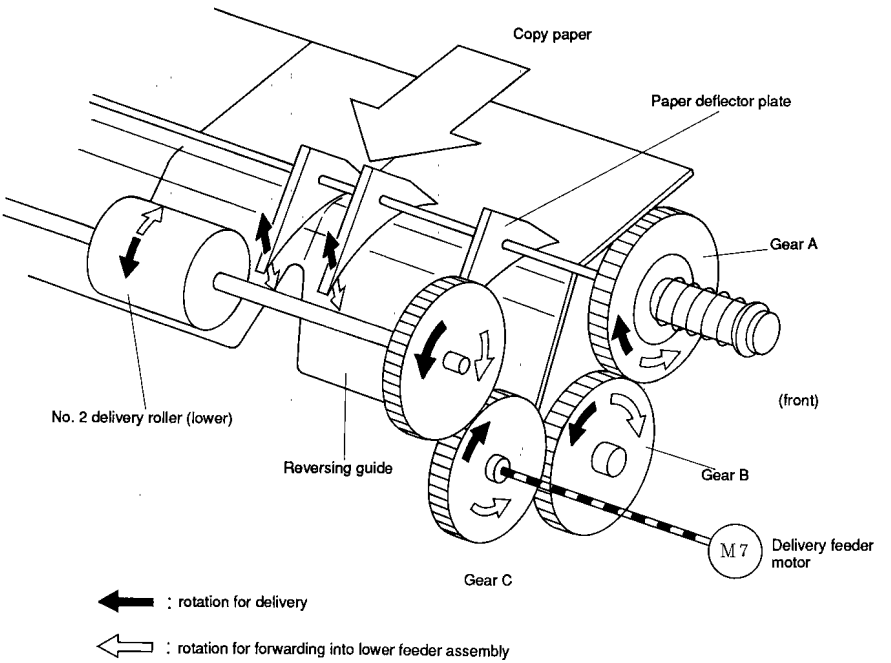

Figure 3-87

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■ At Time of Delivery

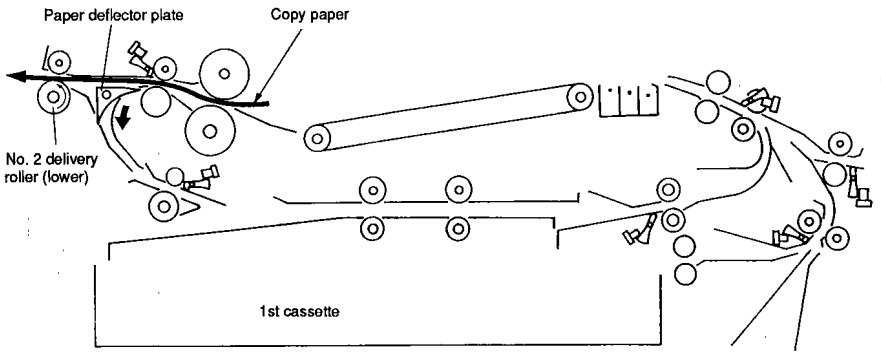

Figure 3-88

■ Forwarding to Lower Feeder Assembly (overlay copy)

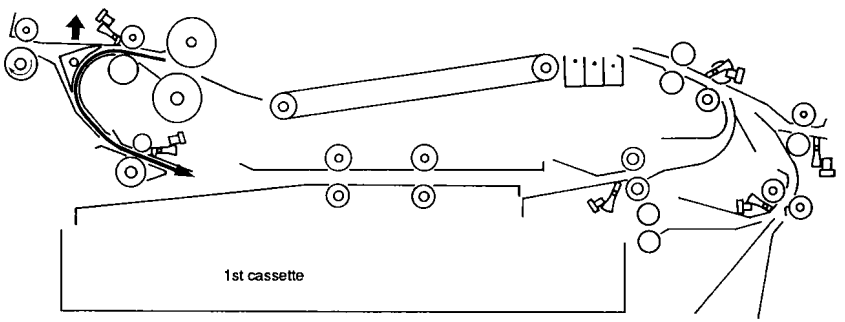

Figure 3-89

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■ At Time of Switch-Back

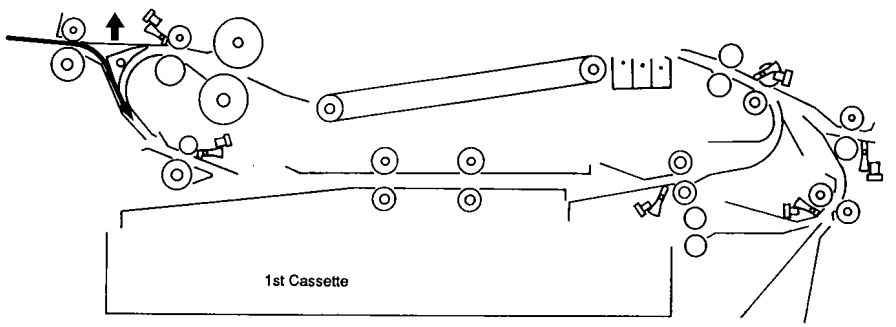

Figure 3-90

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K. Checking for Jams

The machine is equipped with the following paper sensors used to check the presence/absence of paper and the movement of paper.

- No. 1 pre-registration paper sensor (Q5)
- No. 2 pre-registration paper sensor (Q15)
- No. 3 pre-registration paper sensor (Q16)
- No. 4 pre-registration paper sensor (Q854)
- Delivery sensor (Q2)
- Lower feeder inlet paper sensor (Q3)
- Lower feeder outlet paper sensor (Q14)
- Manual feed paper sensor (Q4)

The presence/absence of paper and jams are checked in terms of the presence/absence of paper over respective sensors at such times as pre-programmed in the microprocessor on the DC controller PCB.

The machine can keep track of the remaining number of copies to be made and the copy modes effective at time of a jam; for this reason, the copy count need not be reset after opening and closing of the machine for jam removal.

The microprocessor identifies the following conditions as jams; in addition, it identifies a jam if any of the sensors detects paper at time of power-on. Opening of the upper right door, lower door, or delivery door and moving the manual feed tray cover or the cassette are also identified as a jam.

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1. No. 1 Pre-Registration Delay Jam

The copy paper does not reach the No. 1 pre-registration paper sensor (Q5) within a specific period of time after the No. 2 registration roller clutch solenoid (SL8) has gone ON.

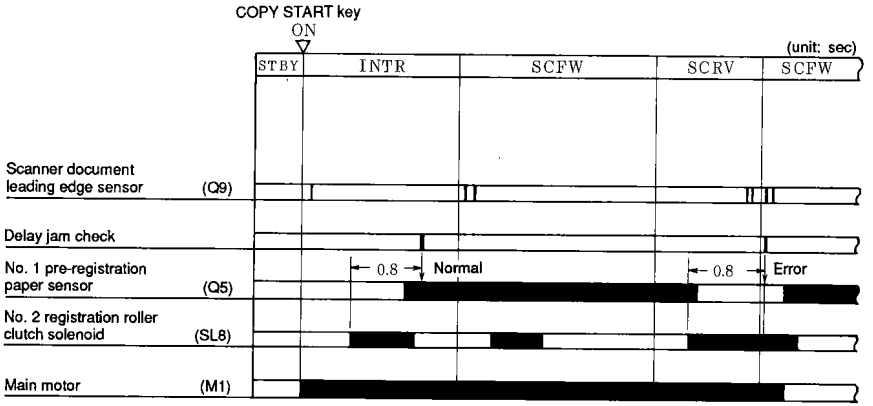

Figure 3-91

2. No. 1 Pre-Registration Timing Jam

The copy paper reaches the No. 1 pre-registration paper sensor (Q5) before a specific period of time after the No. 2 registration roller clutch solenoid (SL8) has gone ON.

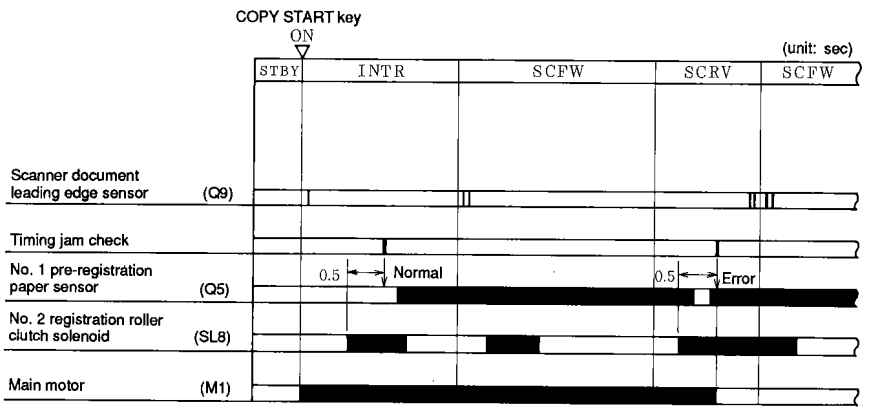

Figure 3-92

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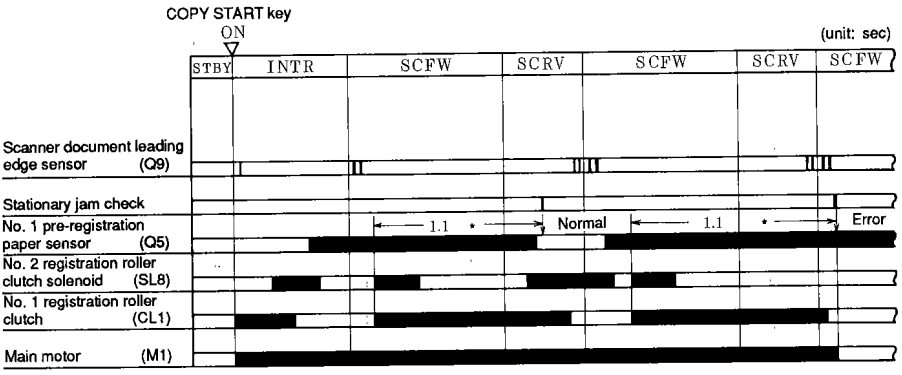
3. No. 1 Pre-Registration Stationary Jam

The copy paper does not move past the No. 1 pre-registration paper sensor (Q5) within a specific period of time after the No. 2 registration roller clutch solenoid (SL8) has gone ON.

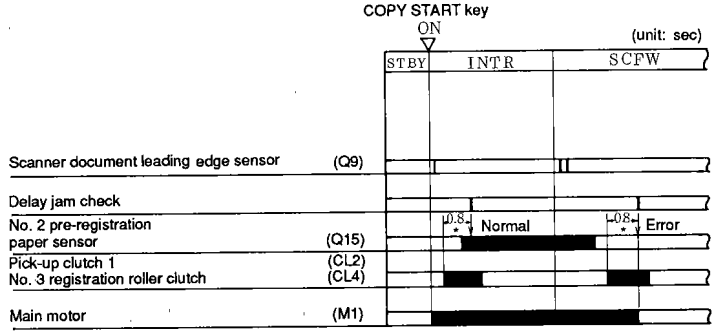


* Varies depending on the length of paper; the above is based on A4 size.

Figure 3-93

4. No. 2 Pre-Registration Delay Jam

The copy paper does not reach the No. 2 pre-registration sensor (Q15) within a specific period of time after pick-up clutch 1 (CL2) or the No. 3 registration roller clutch (CL4) has gone ON.



* Varies depending on the source of pick-up; the above represents pick-up from the 1st cassette.
- 0.9 sec if pick-up is from the 2nd cassette.
- 1.0 sec if pick-up is from the No. 3 registration roller.

Figure 3-94

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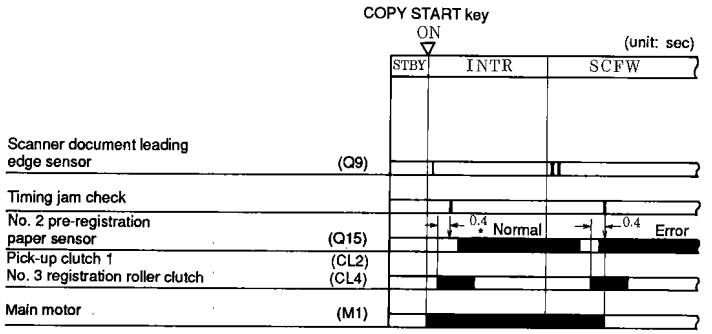
5. No. 2 Pre-Registration Timing Jam

The copy paper reaches the No. 2 pre-registration paper sensor (Q15) before a specific period of time after pick-up clutch 1 (CL2) or the No. 3 registration roller clutch (CL4) has gone ON.

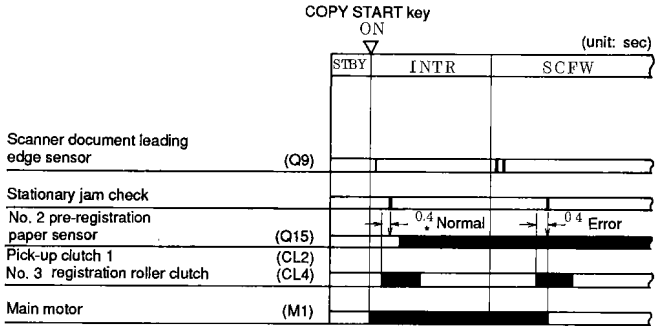


* Varies depending on the source of pick-up; the above represents pick-up from the 1st cassette.
- 0.5 sec if pick-up is from the 2nd cassette.
- 0.6 sec if pick-up is from the No. 3 registration roller.

Figure 3-95

6. No. 2 Pre-Registration Stationary Jam

The copy paper does not move past the No. 2 pre-registration paper sensor (Q15) within a specific period of time after pick-up clutch 1 (CL2) or the No. 3 registration roller clutch (CL4) has gone ON. Checks for stationary jams are executed in the same way as timing jams.



* Varies depending on the source of pick-up; the above is based on pick-up from the 1st cassette.
- 0.5 sec if pick-up is from the 2nd cassette.
- 0.6 sec if pick-up is from the No. 3 registration roller.

Figure 3-96

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7. No. 3 Pre-Registration Delay Jam

The copy paper does not reach the No. 3 pre-registration paper sensor (Q16) within a specific period of time after pick-up clutch 2 (CL801) or the No. 4 registration roller clutch solenoid (SL802) has gone ON.

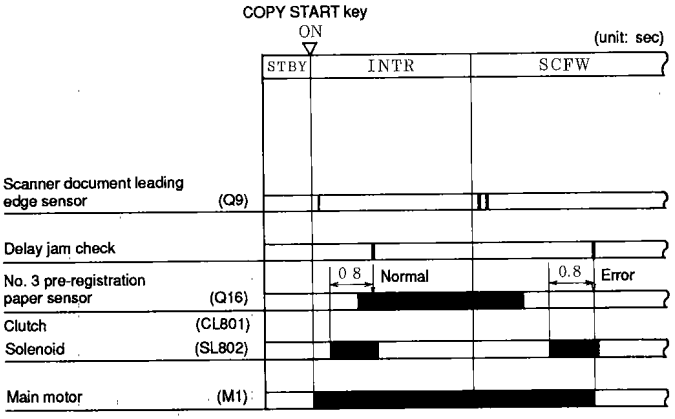

Figure 3-97

8. No. 3 Pre-Registration Timing Jam

The copy paper reaches the No. 3 pre-registration paper sensor (Q16) before a specific period of time after pick-up clutch (CL801) or the No. 4 registration roller clutch solenoid (SL802) has gone ON.

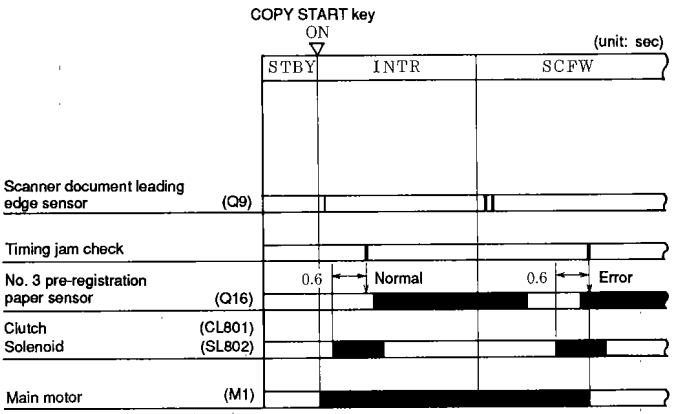

Figure 3-98

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9. No. 3 Pre-Registration Stationary Jam

The copy paper does not move past the No. 3 pre-registration paper sensor (Q16) within a specific period of time after pick-up clutch 2 (CL801) or the No. 4 registration roller clutch solenoid (SL802) has gone ON. Checks for stationary jams are executed in the same way as timing jams.

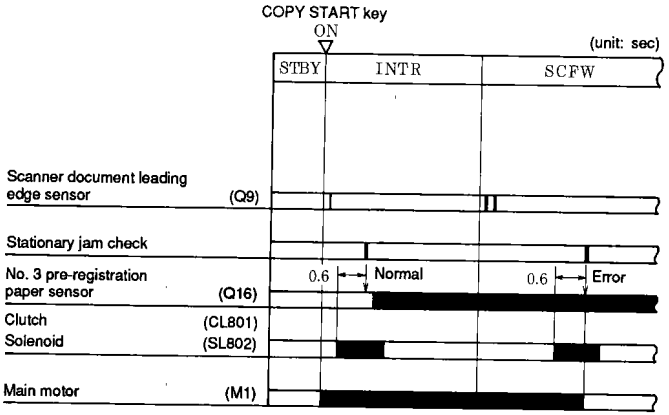

Figure 3-99

10. No. 4 Pre-Registration Delay Jam

The copy paper does not reach the No. 4 pre-registration paper sensor (Q854) within a specific period of time after pick-up clutch 2 (CL801) has gone ON.

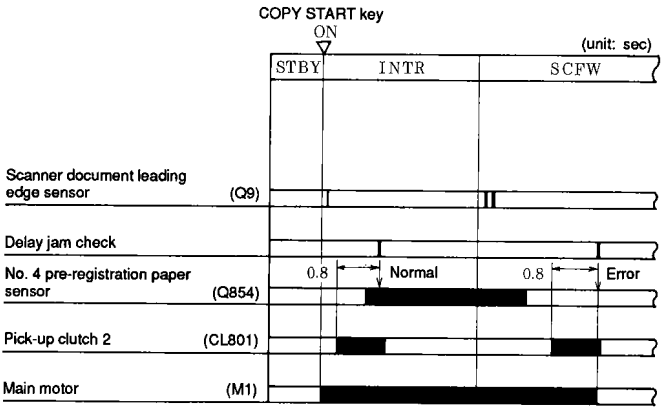

Figure 3-100

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11. No. 4 Pre-Registration Timing Jam

The copy paper reaches the No. 4 pre-registration paper sensor (Q854) before a specific period of time after pick-up clutch 2 (CL801) has gone ON.

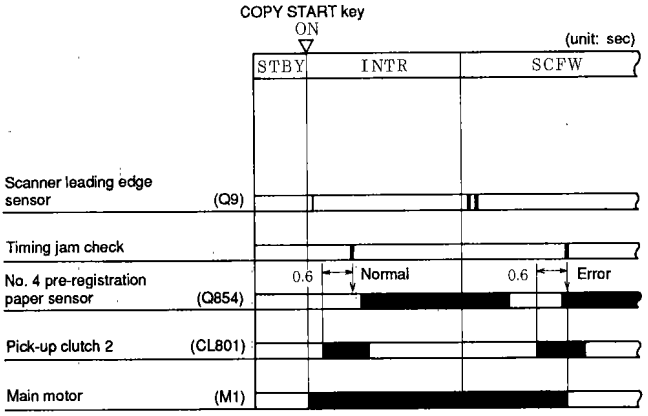

Figure 3-101

12. No. 4 Registration Roller Stationary Jam

The copy paper does not move past the No. 4 pre-registration sensor (Q854) within a specific period of time after pick-up clutch 2 (CL801) has gone ON. Checks for stationary jams are executed in the same way as timing jams.

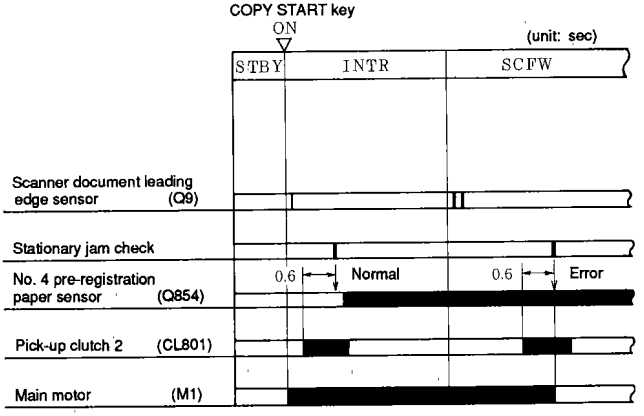

Figure 3-102

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13. Delivery Delay Jam

The copy paper does not reach the delivery sensor (Q2) within a specific period of time after the No. 1 registration roller (CL1) has gone ON.

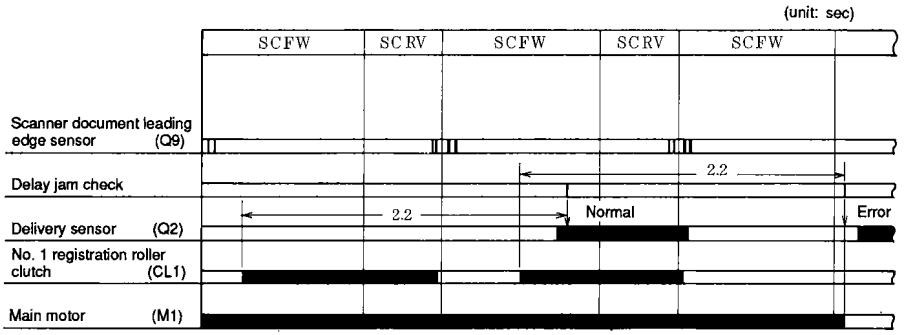

Figure 3-103

14. Delivery Timing Jam

The copy paper reaches the delivery sensor (Q2) before a specific period of time after the No. 1 registration roller clutch (CL1) has gone ON.

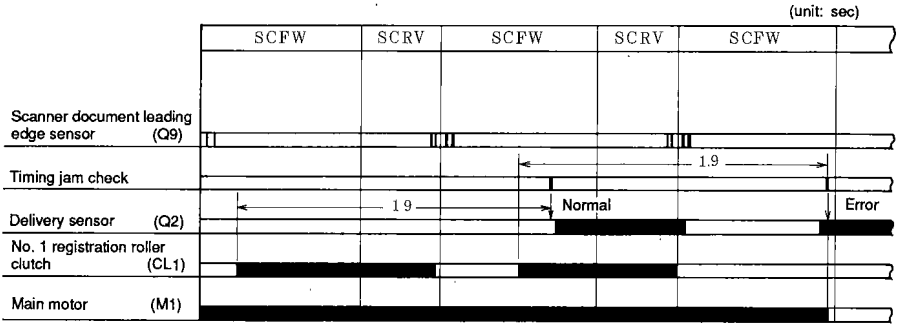

Figure 3-104

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15. Delivery Stationary Jam

The copy paper does not move past the delivery sensor (Q2) within a specific period of time after the No. 1 registration roller clutch (CL1) has gone ON. Checks for stationary jams are executed in the same way as timing jams.

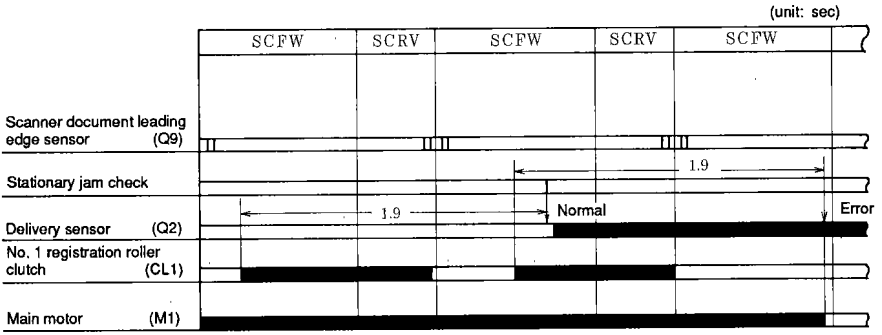

Figure 3-105

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16. Lower Feeder Inlet Delay Jam

The copy paper does not reach the lower feeder inlet paper sensor (Q3) within a specific period of time after the delivery sensor (Q2) has detected the leading edge of the paper. In the overlay mode, checks for jams are executed differently depending on the size of the paper.

a. Overlay Copy

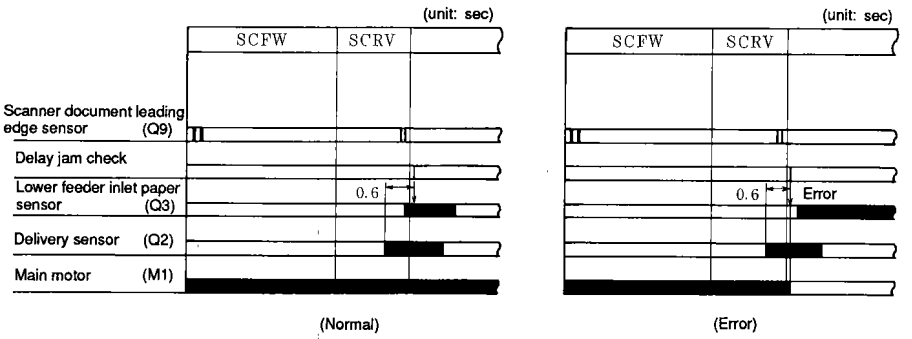
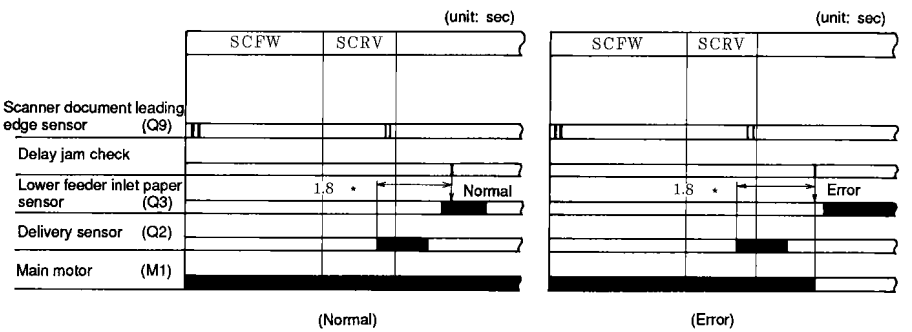


Figure 3-106

b. Two-Sided Copy



* Varies depending on the size of the copy paper used; the above represents A4 paper.

Figure 3-107

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17. Lower Feeder Inlet Timing Jam

The copy paper reaches the lower feeder inlet paper sensor (Q3) before a specific period of time after the delivery sensor (Q2) has detected the leading edge of the paper. In the overlay mode, checks are made at specific times regardless of the size of paper; in the two-sided mode, however, they vary depending on the size of paper.

a. Overlay Copy

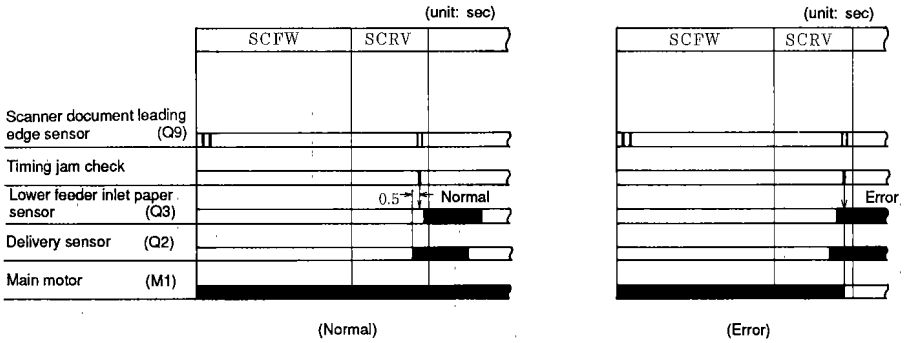
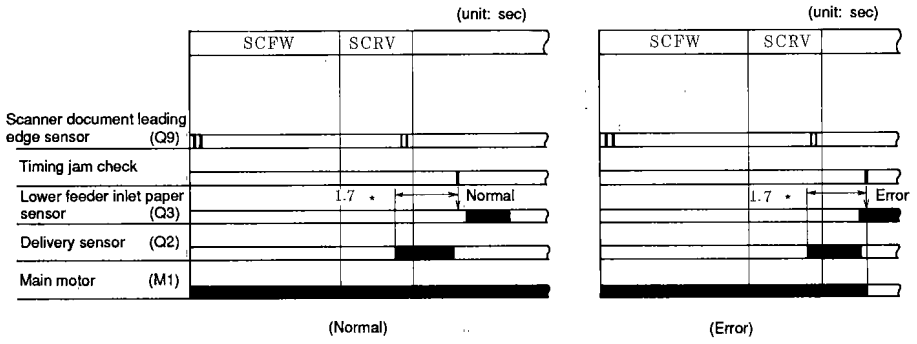


Figure 3-108

b. Two-Sided Copy



* Varies depending on the size of the copy paper used; the above represents A4 paper.

Figure 3-109

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18. Lower Feeder Inlet Stationary Jam

The copy paper does not move past the lower feeder inlet paper sensor (Q3) within a specific period of time after the delivery sensor (Q2) has detected the leading edge of paper.
Checks on stationary jams are executed in the same way as timing jams.

a. Overlay Copy

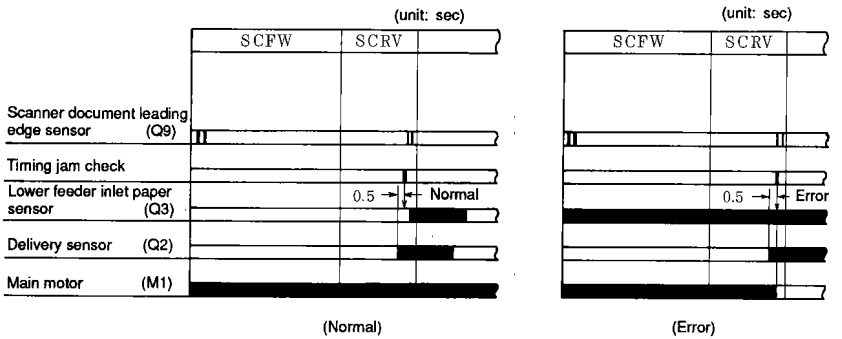
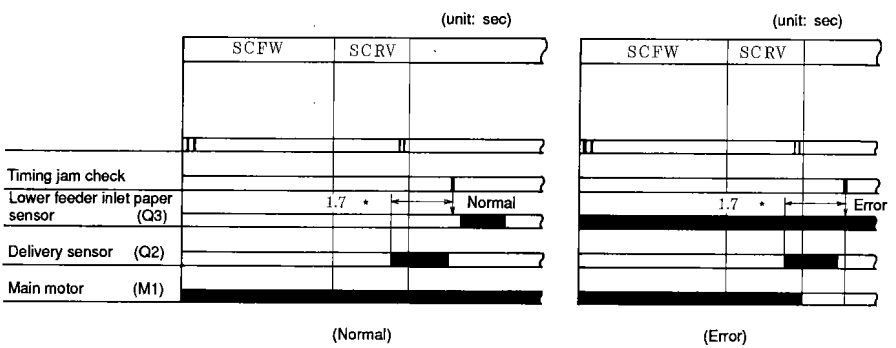


Figure 3-110

b. Two-Sided Copy



* Varies depending on the size of the copy paper used; the above represents A4 paper.

Figure 3-111

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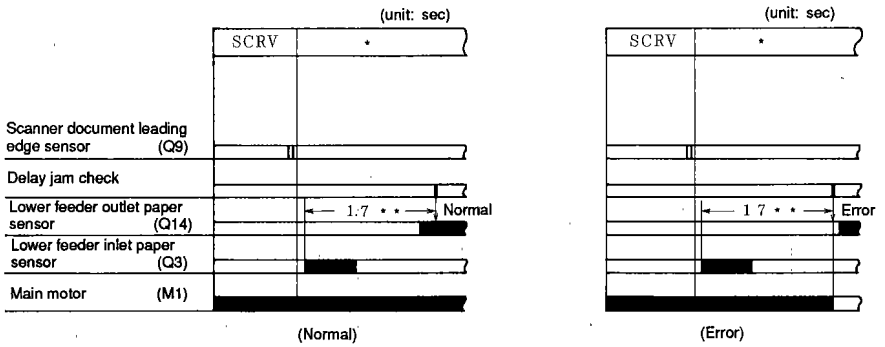
19. Lower Feeder Outlet Delay Jam

The copy paper does not reach the lower feeder outlet paper sensor (Q14) within a specific period of time after the lower feeder inlet paper sensor (Q3) has detected the leading edge of the paper.

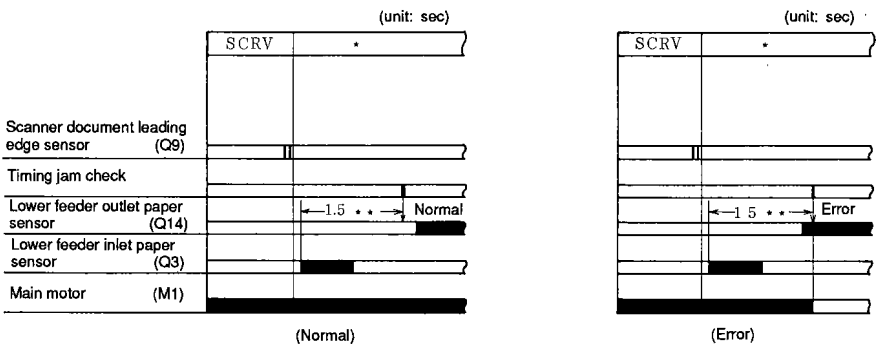


* While copy paper is being moved; i.e., scanner at standby.
** Varies depending on the size of the copy paper used; the above represents A4 paper (1 copy).

Figure 3-112

20. Lower Feeder Outlet Timing Jam

The copy paper reaches the lower feeder outlet paper sensor (Q14) before a specific period of time after the lower feeder inlet paper sensor (Q3) has detected the leading edge of the paper.



* While copy paper is being moved; i.e., scanner at standby.
** Varies depending on the size of the copy paper used; the above represents A4 paper (1 copy).

Figure 3-113

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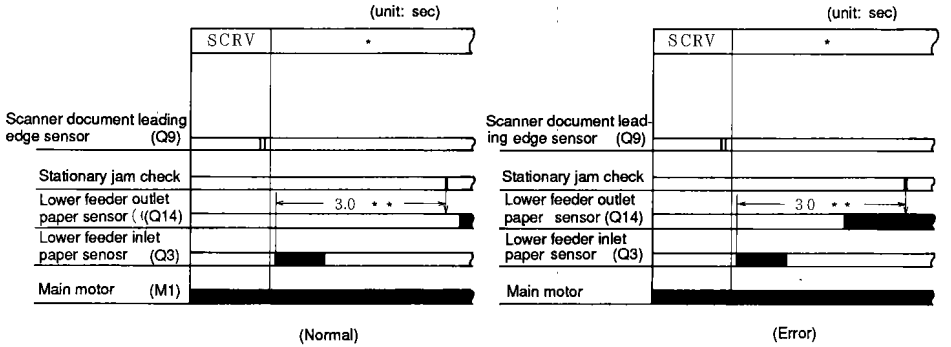
21. Lower Feeder Outlet Stationary Jam

The copy paper does not move past the lower feeder outlet paper sensor (Q14) within a specific period of time after the lower feeder inlet paper sensor (Q3) has detected the leading edge of the paper.



* While copy paper is being moved; i.e., scanner at standby.

** Varies depending on the size of the copy paper used; the above represents A4 paper (1 copy).

Figure 3-114

22. Manual Feed Delay Jam

Same as No. 1 pre-registration delay jams; see Figure 3-91.

23. Manual Feed Timing Jam

Same as No. 1 pre-registration timing jams; see Figure 3-92.

24. Manual Feed Stationary Jam

Same as No. 1 pre-registration stationary jams; see Figure 3-93.

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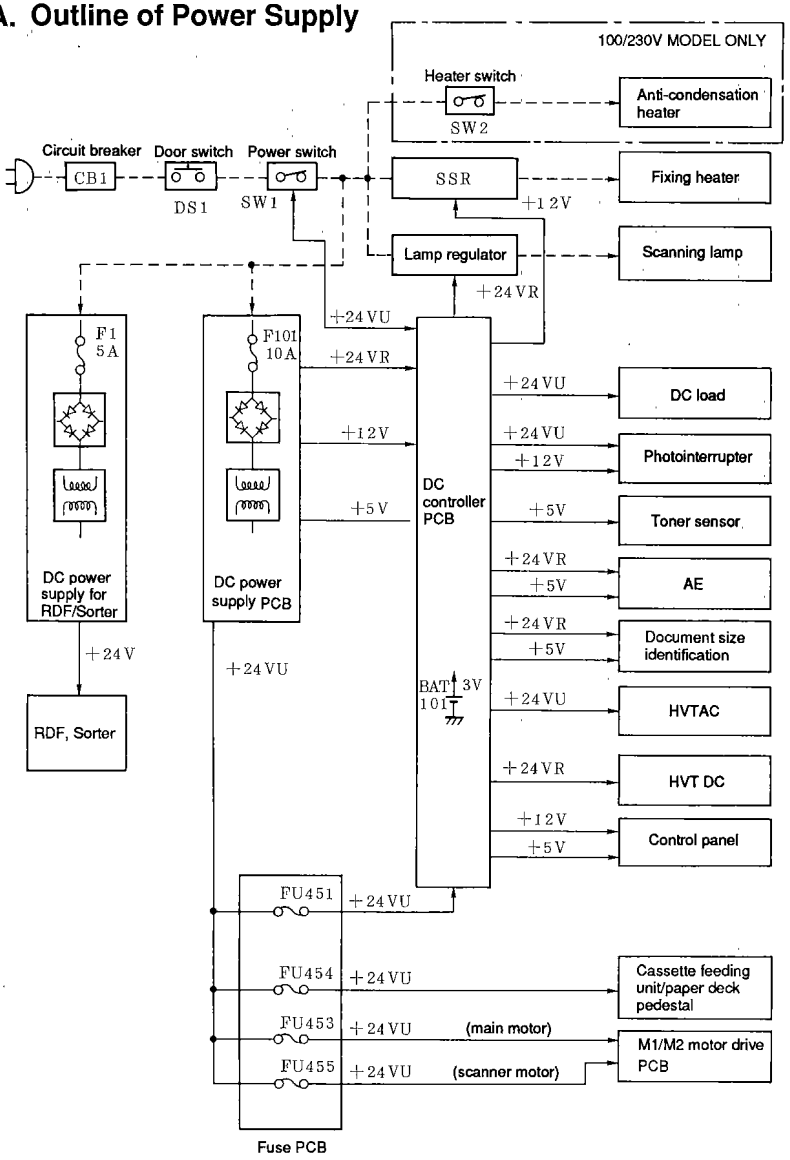
V. POWER SUPPLY

A. Outline of Power Supply



Dashed lines represent AC power lines.

Figure 3-115

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When the door switch and the power switch are turned ON, the DC power supply PCB is supplied with AC power. The auto shut-off mechanism causes the DC controller PCB to turn the power switch OFF.

The DC power supply PCB generates +24 VR, +24 VU, +12 V, and +5 V; +24 VU is sent to the DC controller PCB and the motor driver PCB through the fuse on the fuse PCB.

The DC power supply PCB for the DF/sorter supplies the sorter with 24V power.

When the machine's door switch and the power switch are turned OFF, the DC power to the DC controller PCB will be cut OFF; for this reason, the RAM on the DC controller PCB and the date/time memory are backed up by a lithium battery (BAT101).

Note:
The tolerances for the DC power supply are as follows:

+24VR	**±1%**
+24VU	**±7%**
+12V	**±5%**
+ 5V	**±4%**

⚠ CAUTION:
Replace the lithium battery only with the one listed in the Parts Catalog.
Use of another battery may present a risk of fire or explosion. The battery may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble or dispose of in fire. Keep the battery out of reach of children and discard used battery promptly.

B. Protection Mechanism for the Power Circuit

The DC power supply PCB and the DC power supply PCB for the RDF/sorter are equipped with an overcurrent sensor circuit which, when any of the loads suffer a short circuit for some reason, are activated to shut off the output.

When the output is shut off, open the front door to turn the door switch OFF; then, correct the load, and turn the door switch ON once again. Repeated short-circuiting and resetting, however, can blow the built-in fuse.

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VI. PAPER DECK PEDESTAL

A. Outline

The paper deck pedestal is equipped with two decks (left, right) and is used to feed paper from each deck to the copier in response to signals from the copier.

The deck motor drives the loads used to operate the paper pick-up/feed mechanism and the left and right lifters.

The left feeder assembly found between the left deck and the No. 3 registration roller picks up a single sheet of paper from the left deck and keeps the paper after copying operation; since paper picked up from the left deck has to move through a longer path, this arrangement serves to shorten the first copy time.

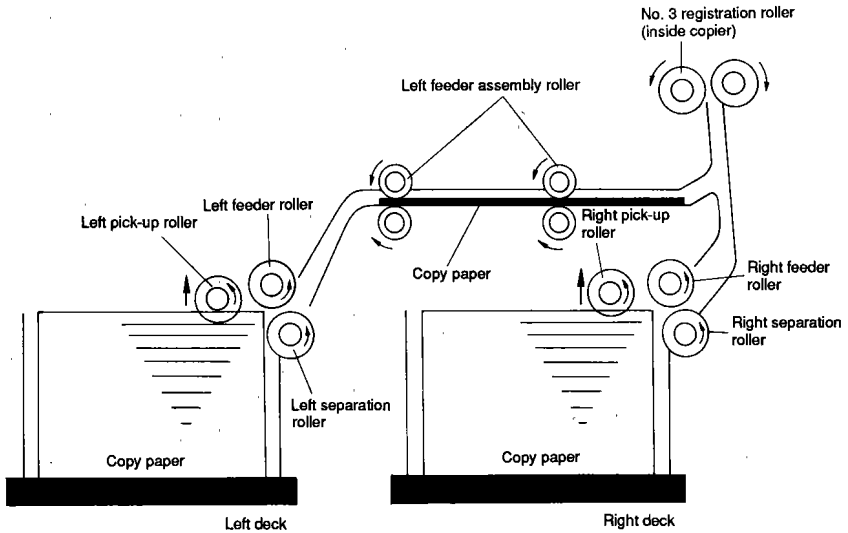

Figure 3-200

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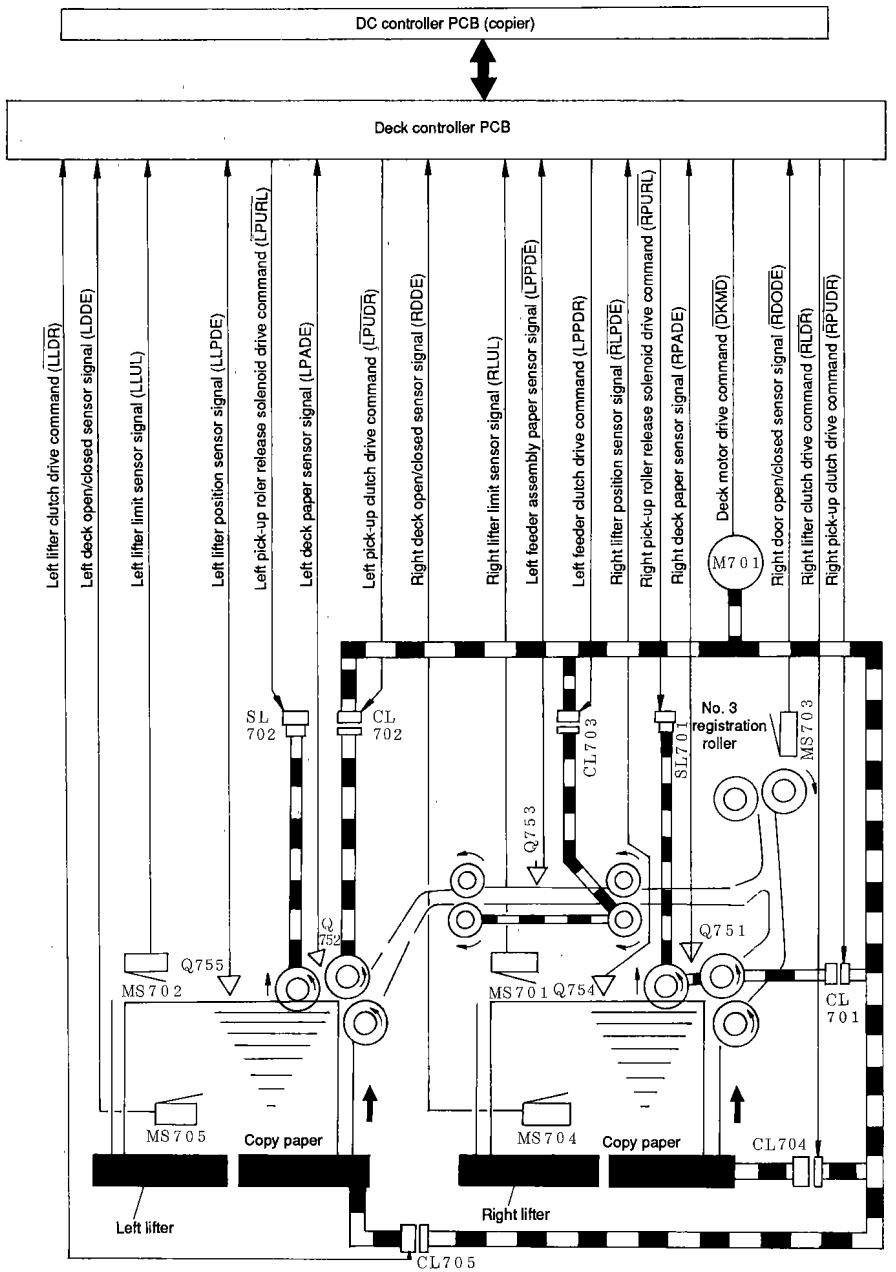

Figure 3-201

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B. Electrical Circuitry

The paper deck pedestal is controlled by its deck controller PCB and signals coming from the copier.

The signals from the copier are sent according to the pre-programmed instructions stored in the copier's memory.

The controller PCB inside the deck controls the motors, clutches, and other loads based on the signals from the copier.

The deck controller PCB is supplied with 24 V power by the copier's DC power supply and, in turn, supplies each load with 24V or 12V power.

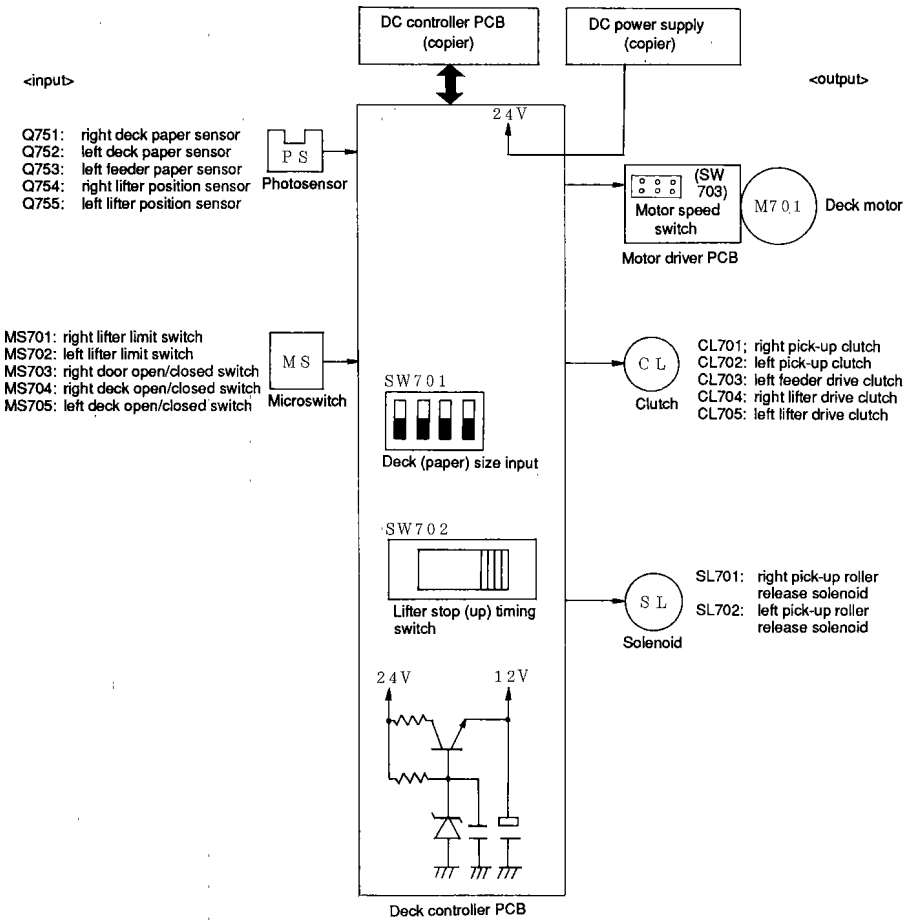

Figure 3-202

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C. Inputs to and Outputs from Deck Controller

1. Inputs to and Outputs from Deck Controller

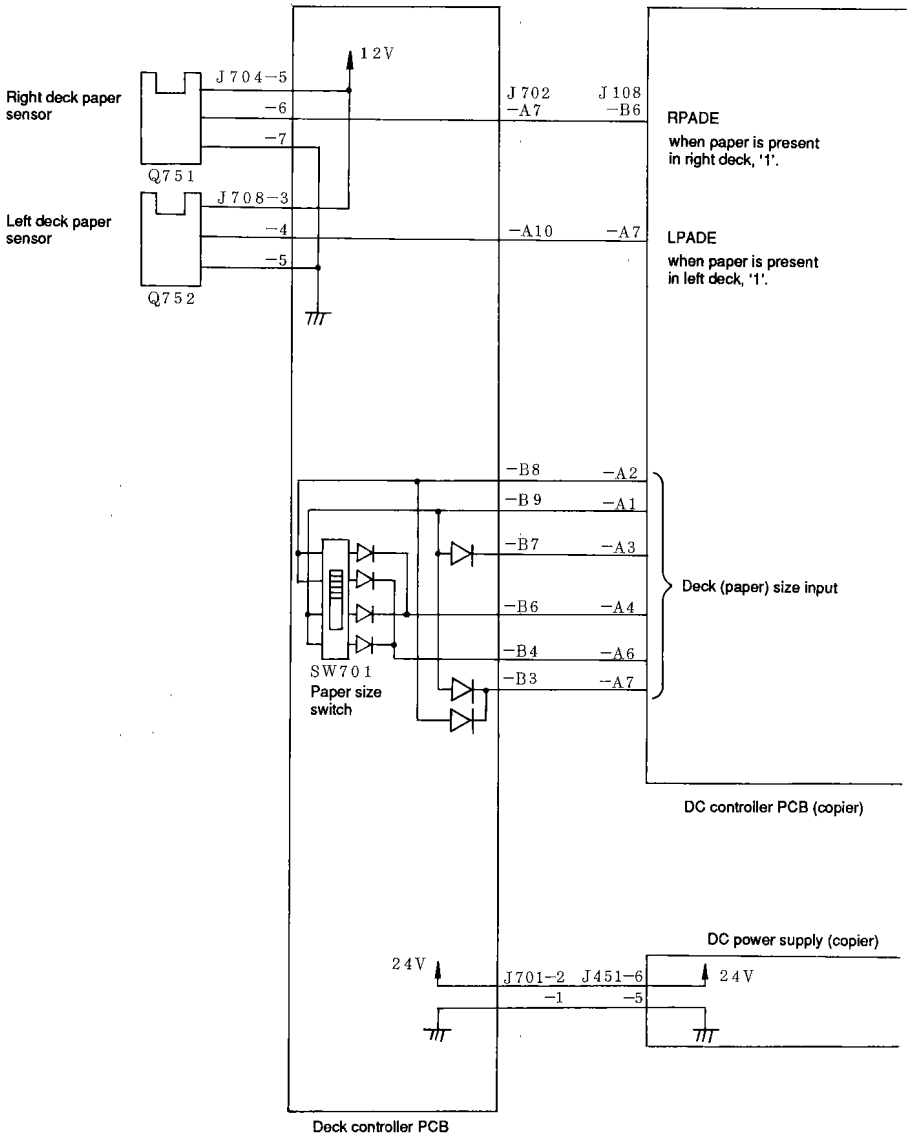

Figure 3-203

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2. Inputs to and Outputs from Deck Controller

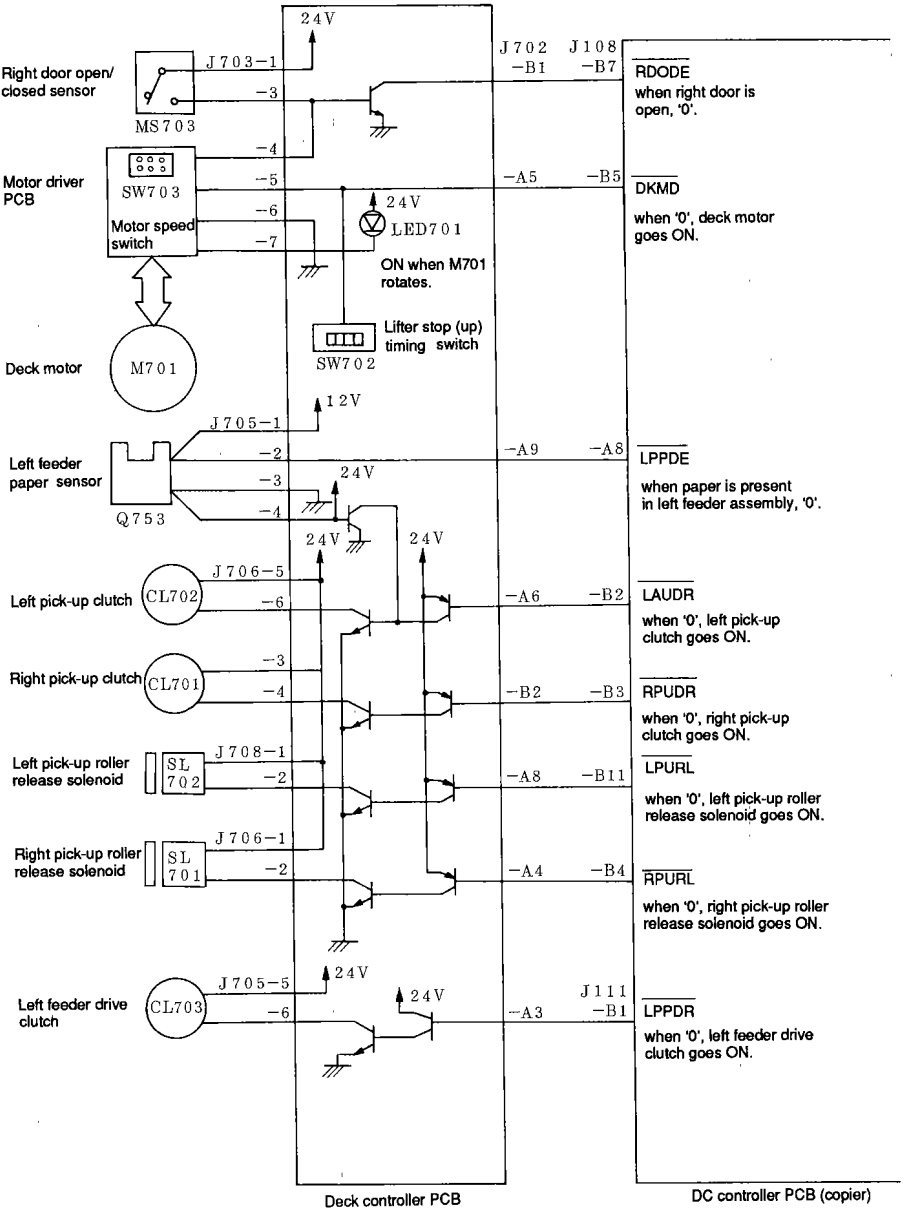

Figure 3-204

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3. Inputs to and Outputs from Deck Controller

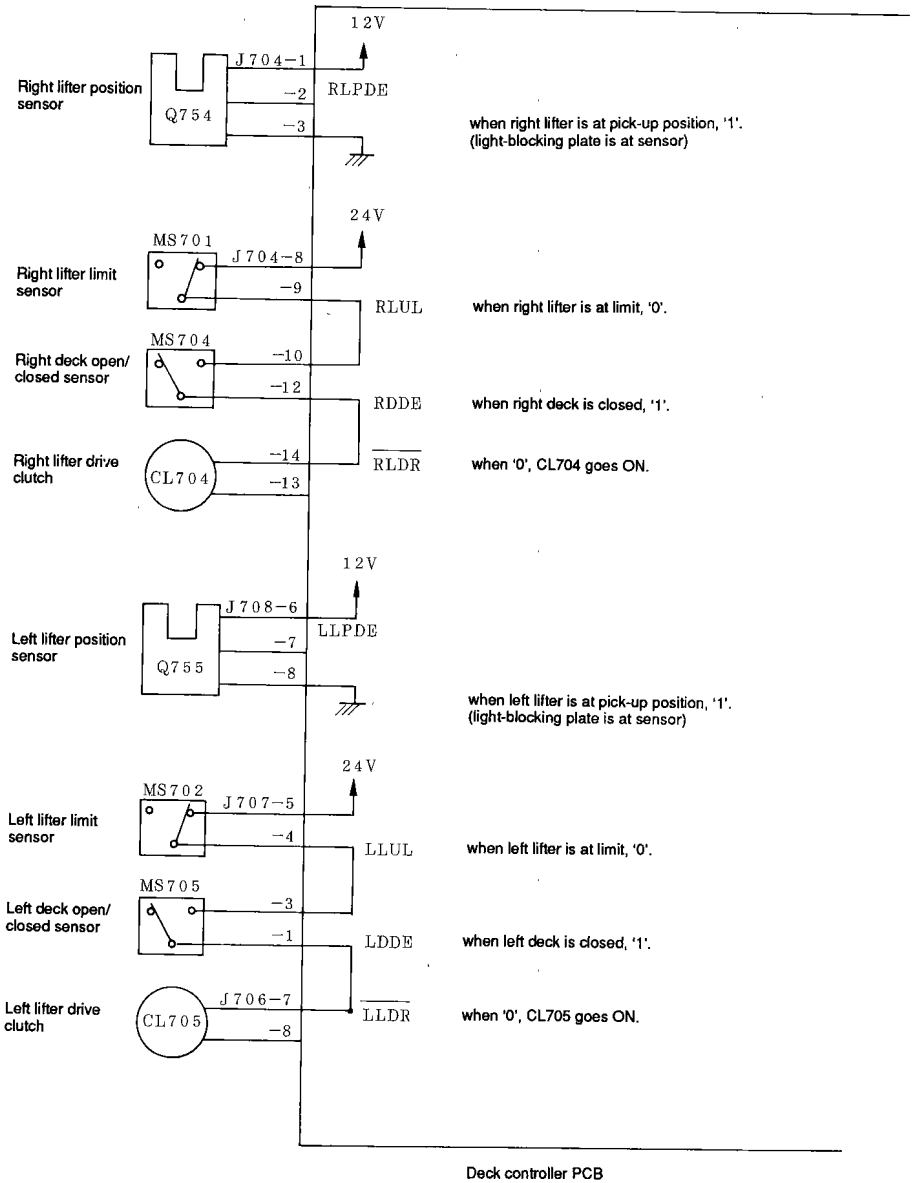

Figure 3-205

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D. Pick-Up/Feed Mechanism

1. Pick-Up from Right Deck

When the COPY START key is pressed on the copier, the copier's DC controller sends the deck motor drive command (DKMD) and, at the same time, the deck motor starts to rotate; the rotation of the motor causes the right pick-up roller to rotate, picking up paper from the right deck.

After pick-up, the paper is forwarded by the right feeder roller to the copier's No. 3 registration roller and made to butt against the No. 3 registration roller to form an arch; then, it is moved to the No. 2 registration roller.

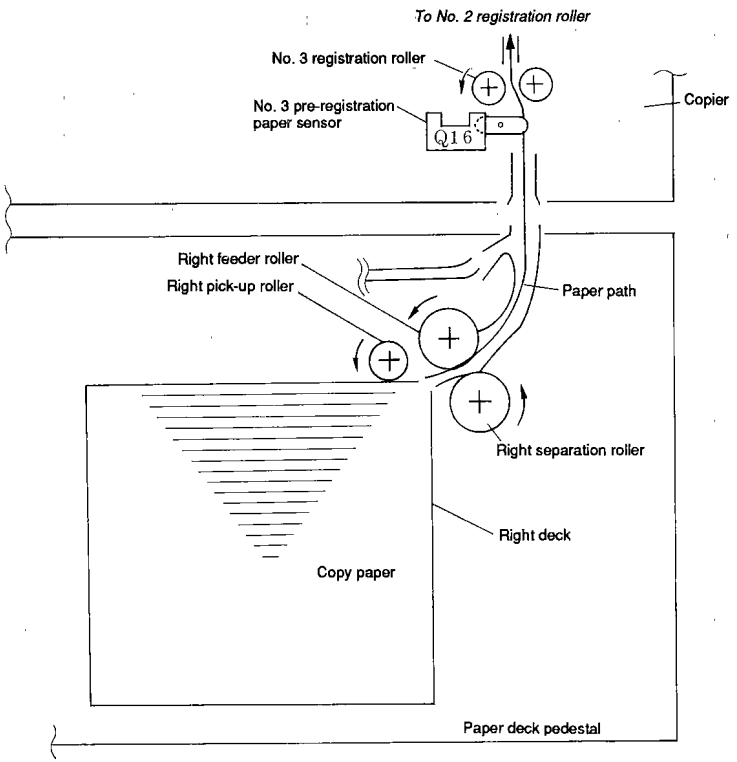

Figure 3-206 Pick-Up from Right Deck

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Sequence of Operations (pick-up from right deck)

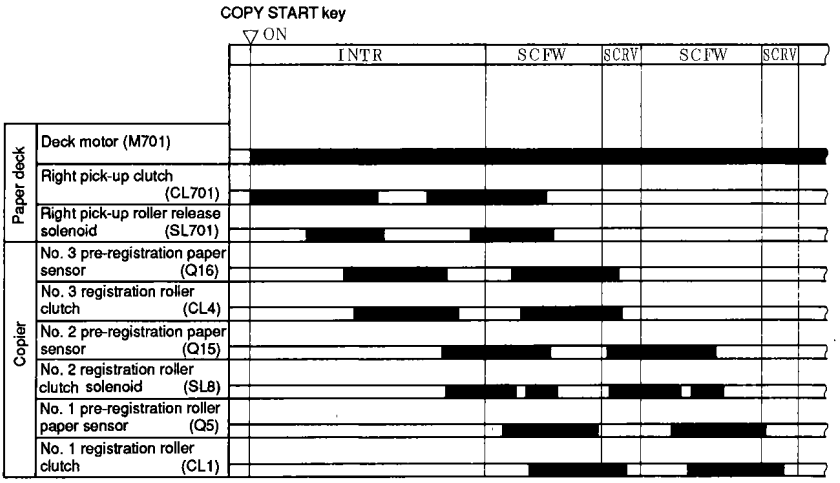

Figure 3-207 A4, 2 copies (pick-up from right deck)

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2. Pick-Up from Left Deck

When the copier's COPY START key is pressed, the copier's DC controller PCB generates DKMD; in response, the deck motor starts to rotate to rotate the left pick-up roller for pick-up from the left deck.

After the pick-up, the paper moves through the left feeder assembly and then to the copier's No. 3 registration roller assembly.

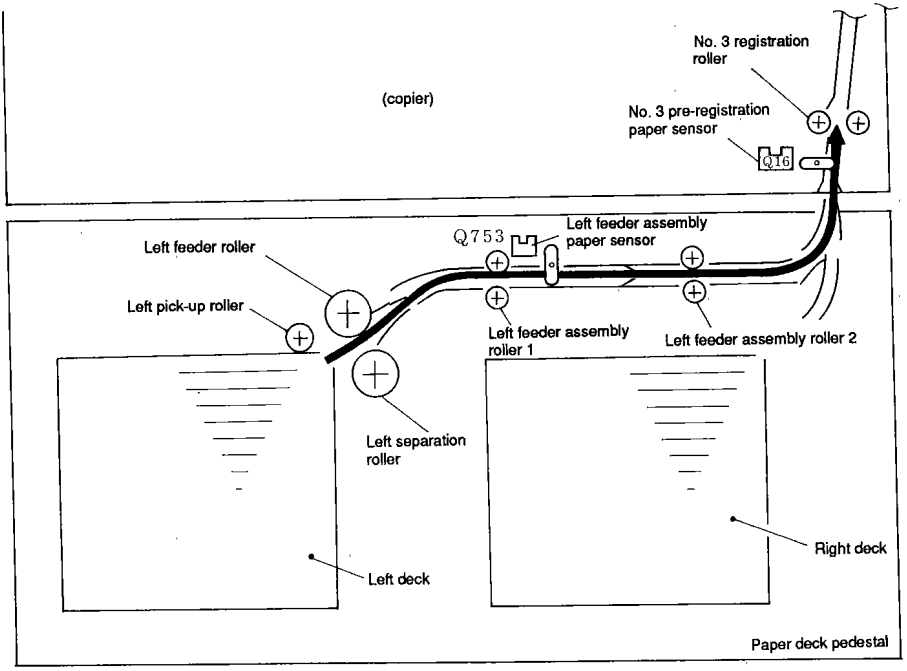

Figure 3-208

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3. Advance Pick-Up from Left Deck

If pick-up is from the left deck, a single sheet of copy paper is picked up after the last copy paper has been picked up from the left deck.

The paper is moved to the left feeder assembly and kept inside it in preparation for the next copying operation , i.e., it, will not be fed to the copier at the time. This mechanism is called *advance pick-up* and serves to shorten the first copy time when pick-up is made from the left feeder assembly, in which case the path will be somewhat longer.

The copier, even after power-on, remembers the copy paper kept in the left feeder assembly; for this reason, it will not indicate a jam (stationary) at time of power-on.

If the paper is removed for some reason from the left feeder assembly, another sheet of copy paper will be picked up newly next time the left deck is used as an advance pick-up.

Note:
The copier cannot recognized detachment of the left feeder assembly; as such, the deck controller circuit includes a mechanism that deactivates the left deck pick-up signal if the left feeder assembly has been detached.
A left feeder pick-up delay jam atill occurs, however, since copying operation will be started despite the deactivation of the signal.

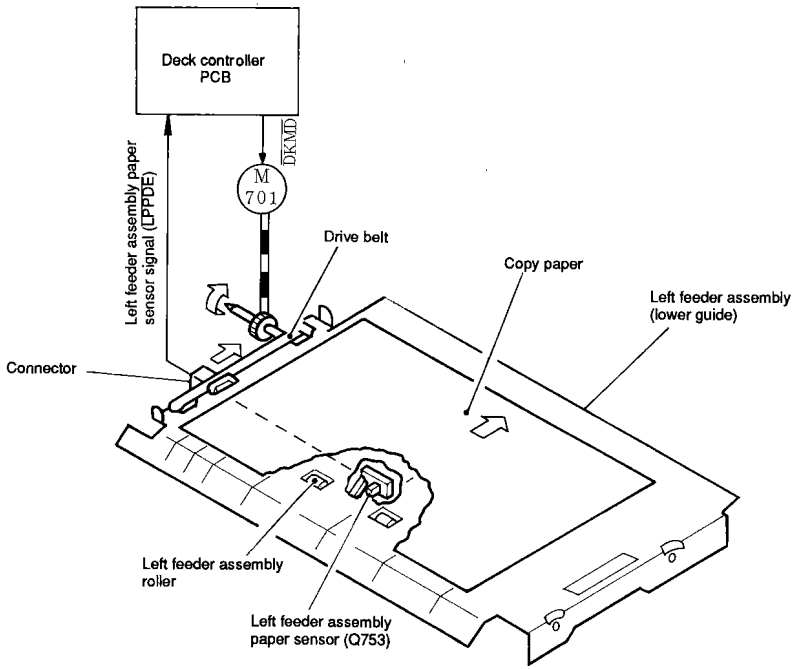

Figure 3-209

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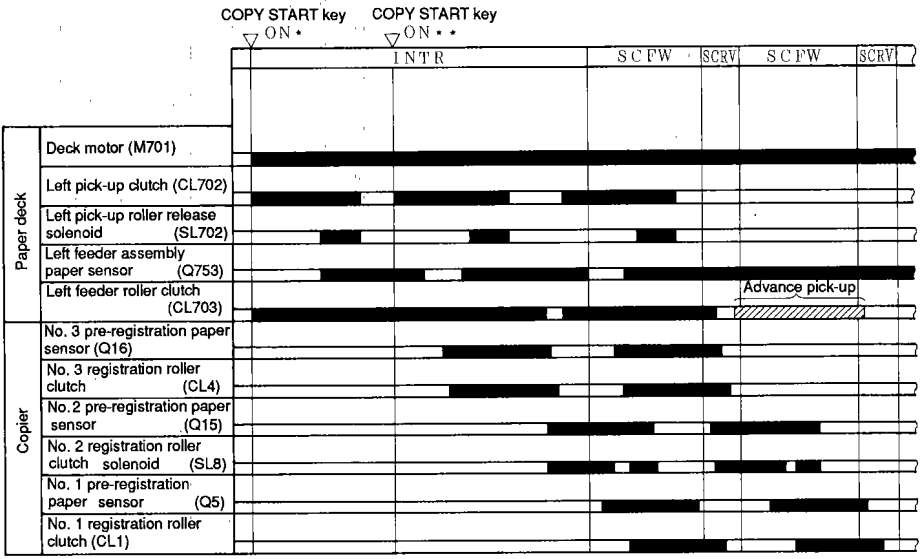
Sequence of Operations (pick-up from left deck)



* Paper is absent in the left feeder assembly when the COPY START key is pressed.
** Paper is present in the left feeder assembly when the COPY START key is pressed.

Figure 3-210 A4, 2 Copies (pick-up from left deck)

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E. Releasing the Pick-Up Roller and the Separation Roller

The machine's paper deck pedestal is a front loading type; for this reason, the pick-up roller and the separation roller are released when the paper deck is slid out for supplying copy paper or removing jams.

1. Releasing the Pick-Up Roller

The pick-up roller is released when the grip on the deck is pulled.

When the cam attached to the end of the roller release shaft becomes disengaged from the latch on the grip, the arm on the roller release shaft moves up to lift the pick-up roller. When the deck is slid in, on the other hand, the cam rides over the latch on the grip, causing the arm and the pick-up roller to lower.

The arm is also used to release the pick-up roller at time pick-up operation.

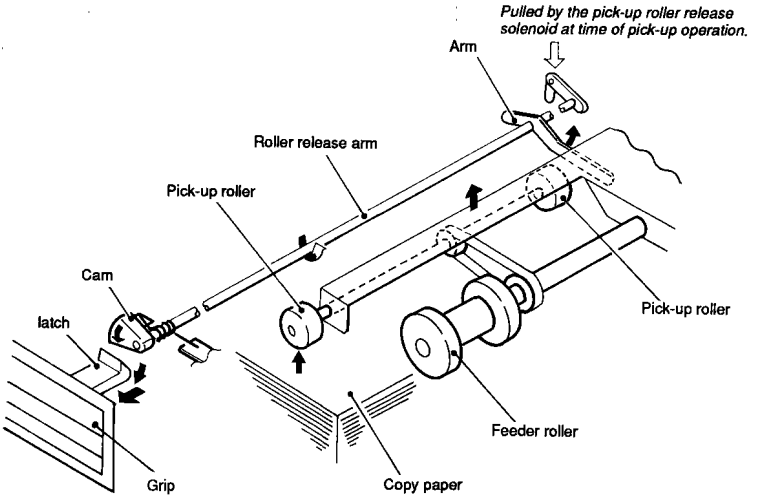

Figure 3-211

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2. Releasing the Separation Roller

When the deck is slid out of the machine, the release lever, which has been forced down by the deck right end plate cam, moves the separation roller to the direction of disengagement by the work of the release spring.

This design is to prevent contact between the separation roller and the deck rear end plate.

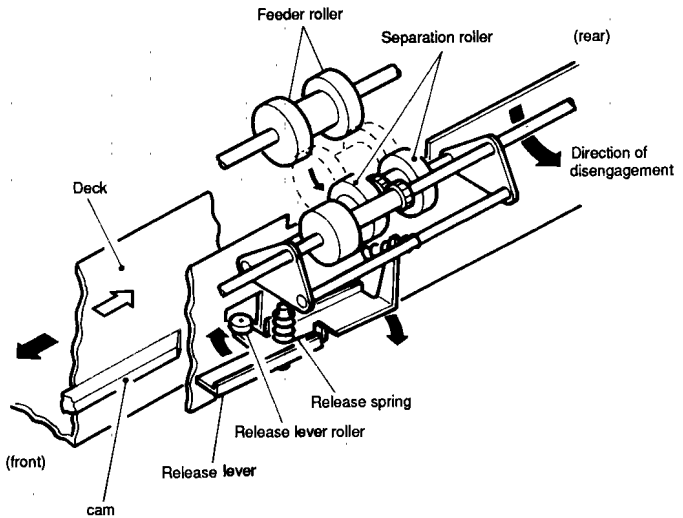

Figure 3-212

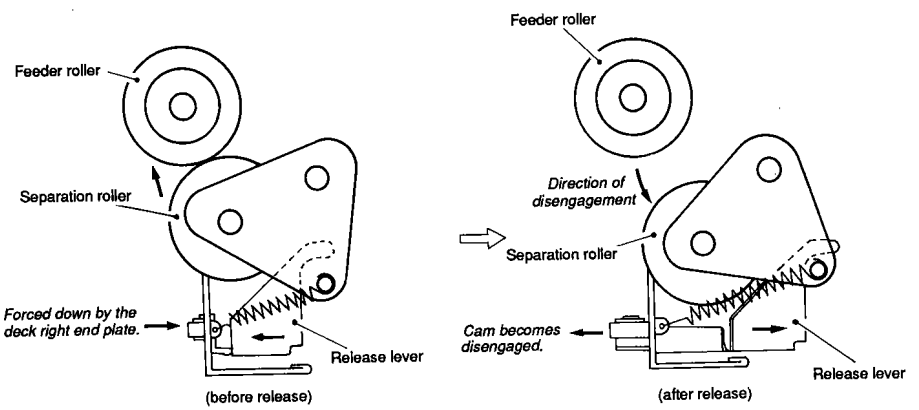

Figure 3-213

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F. Moving the Lifter Up and Down (left/right deck)

When paper is set in the deck and the deck is closed, the deck open/closed sensor (MS704, MS705) goes ON; this condition causes the deck motor to rotate and the lifter drive clutch (CL704, CL705) to go ON, moving the lifter up.

When the lifter has moved up and reached the lifter position sensor (Q751, Q752), the lifter drive clutch goes OFF; the lifter is then kept up by a one-way gear.

The lifter is moved up regardless of the state of the machine as long as the copier is powered.

When the deck is detached from the machine, the wire cable take-up gear becomes disengaged from the one-way gear, allowing the lifter to lower on its own weight.

Note:
If the lifter does not stop moving up after it has reached the lifter position sensor, the lifter limit microswitch (MS701, MS702) cuts off the power to the lifter drive clutch (CL704, CL705). The lifter will not be moved up if the left feeder assembly is not set correctly to the paper deck pedestal.

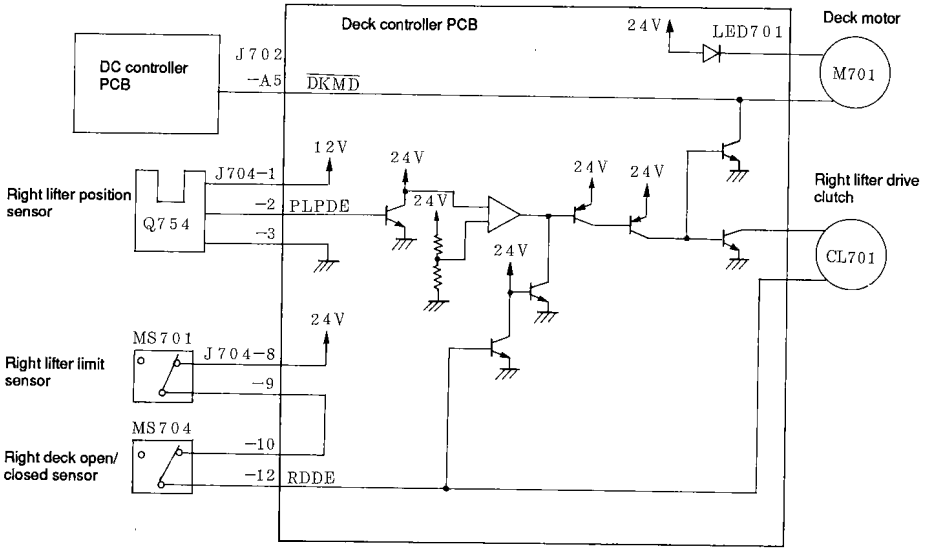

Figure 3-214 Right Lifter Drive Circuit

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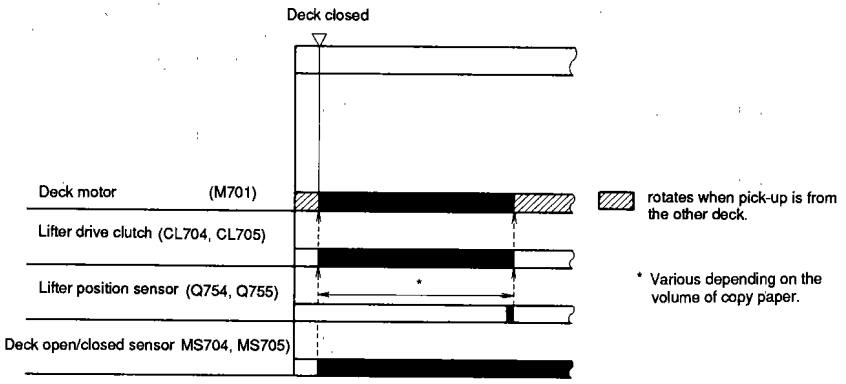
Deck closed
Deck motor (M701)
Lifter drive clutch (CL704, CL705)
Lifter position sensor (Q754, Q755)
Deck open/closed sensor MS704, MS705)
*
rotates when pick-up is from the other deck.
* Various depending on the volume of copy paper.

Figure 3-215 Lifter Up Movement

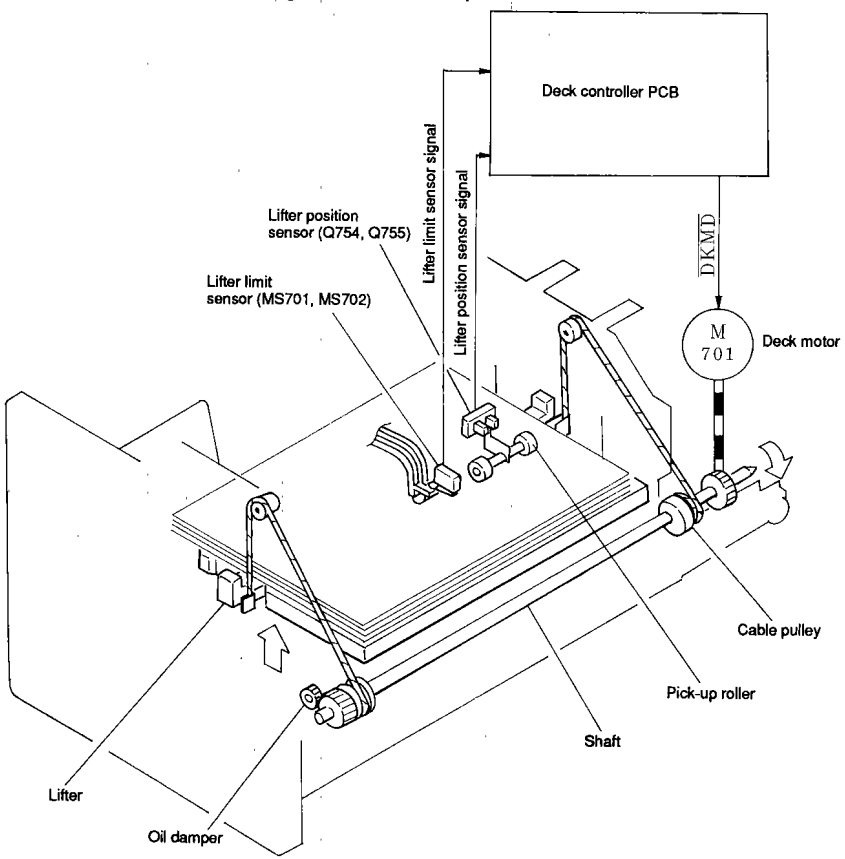

Figure 3-216 Lifter Up Mechanism

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G. Checking the Paper in the Deck (left/right deck)

The mechanism to check the paper in the deck is attached on the same plate as the lifter position sensor.

When copy paper is present on the lifter, the sensor arm moves over the left/right deck paper sensor as the lifter moves up.

If paper is absent, the sensor arm moves into the lifter hole and remains still as the lifter moves up; this condition is identified as the absence of paper.

The condition in which the lifter does not move to a specific position in the presence of paper for some reason will also be identified as the absence of paper.

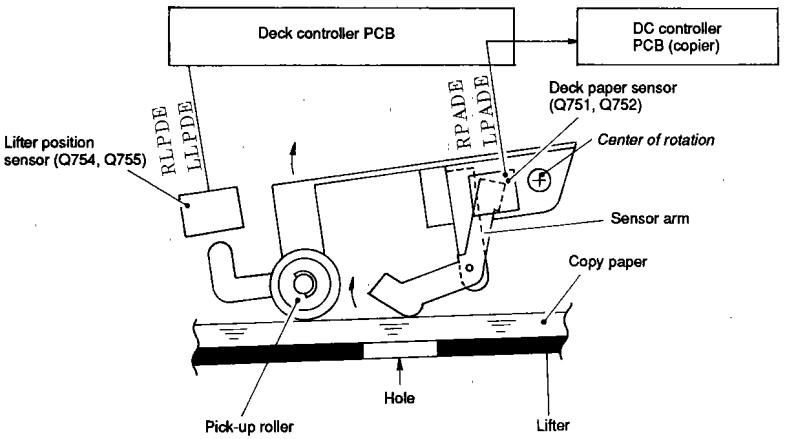

Figure 3-217 Paper on Lifter

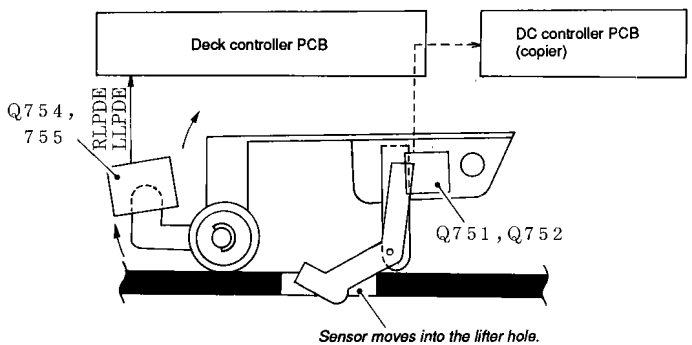

Figure 3-218 No Paper on Lifter

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H. Checking for Jams

1. Right Deck

a. No. 3 Pre-Registration Jam

The copy paper does not reach the No. 3 pre-registration sensor within about 1.0 sec after the right pick-up clutch has gone ON; the condition is identified as a delay jam.

If the No. 3 pre-registration remains ON about 0.5 sec after the right pick-up clutch has gone ON, a stationary jam (previous paper) will be identified.

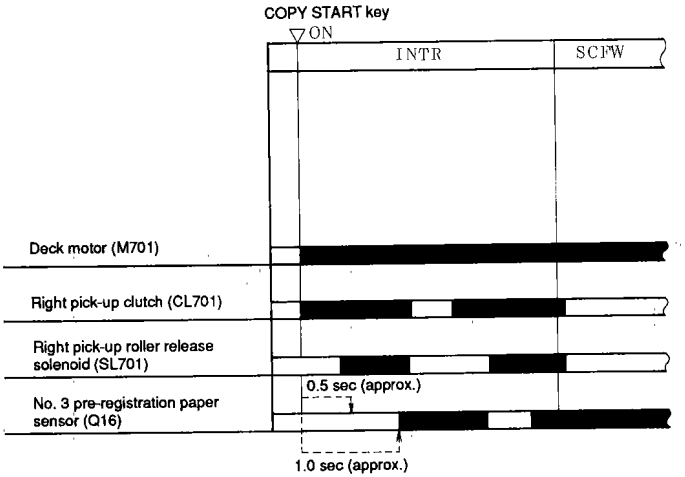

Figure 3-219

b. No. 2 Pre-Registration Jam

The copy paper does not reach the No. 2 pre-registration sensor with about 1.0 sec after the No. 3 registration roller clutch has gone ON; the condition is identified as a delay jam.

If the No. 2 pre-registration paper sensor remains ON about 0.6 sec after the No. 3 registration clutch has gone ON, a stationary jam (previous paper) will be identified.

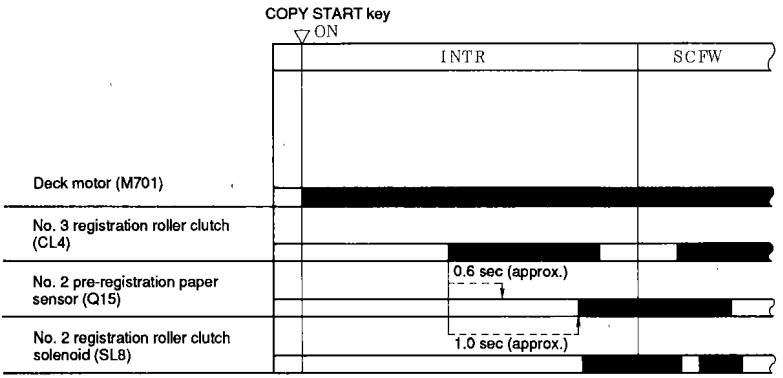

Figure 3-220

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c. No. 1 Pre-Registration Jam

The copy paper does not reach the No. 1 pre-registration paper sensor within about 0.7 sec after the No. 2 registration roller clutch solenoid has gone ON; the condition will be identified as a delay jam.

If the No. 1 pre-registration paper sensor remains ON about 0.5 sec after the No. 2 registration roller clutch solenoid has gone ON, a stationary jam (previous paper) will be identified.

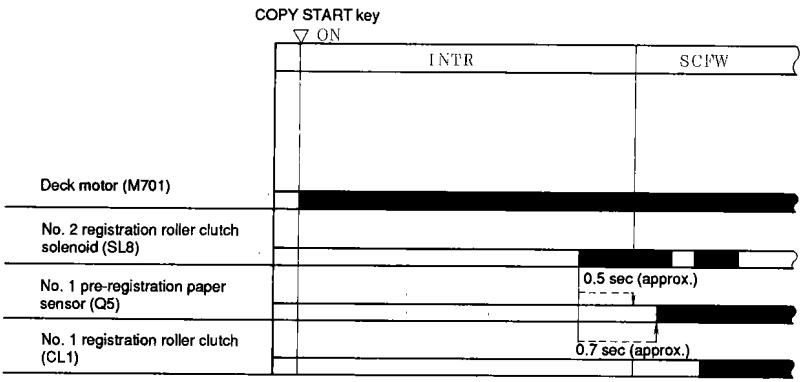

Figure 3-221

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2. Left Deck

a. Left Feeder Assembly Jam

The copy paper does not reach the left feeder assembly paper sensor within about 1.0 sec after the left pick-up clutch has gone ON; the condition will be identified as a delay jam.

If the left feeder assembly sensor remains ON about 0.4 sec after the left pick-up clutch has gone ON, a stationary jam (previous paper) will be identified.

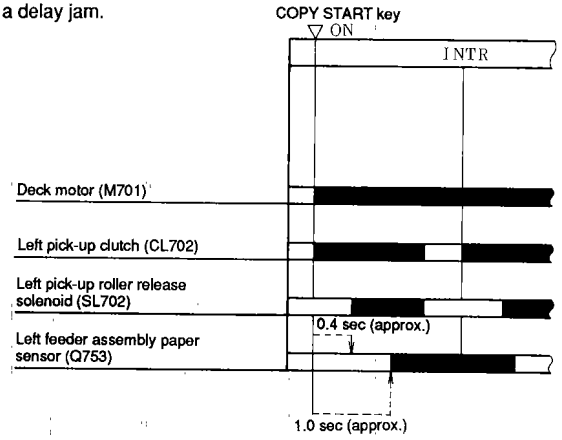

Figure 3-222

b. No. 3 Pre-Registration Jam

The preceding copy paper does not reach the No. 3 pre-registration paper sensor within about 0.9 sec after the left pick-up clutch has gone ON; the condition will be identified as a stationary jam.

If the No. 3 pre-registration paper sensor remains ON about 0.4 sec after the left pick-up clutch has gone ON, a stationary jam (previous paper) will be identified.

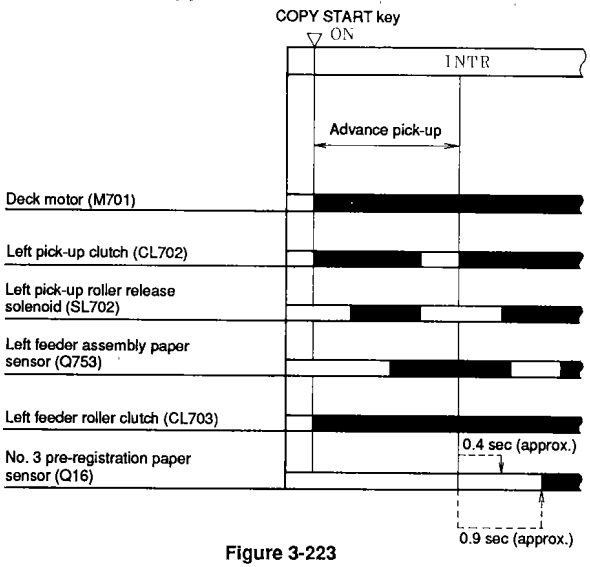

Figure 3-223

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c. No. 2 Pre-Registration Jam

The copy paper does not reach the No. 2 pre-registration paper sensor within about 1.1 sec after the No. 3 registration roller clutch has gone ON; the condition will be identified as a delay jam.

If the No. 2 pre-registration paper sensor remains ON about 0.6 sec after the No. 3 registration roller clutch has gone ON, a stationary jam (previous paper) will be identified.

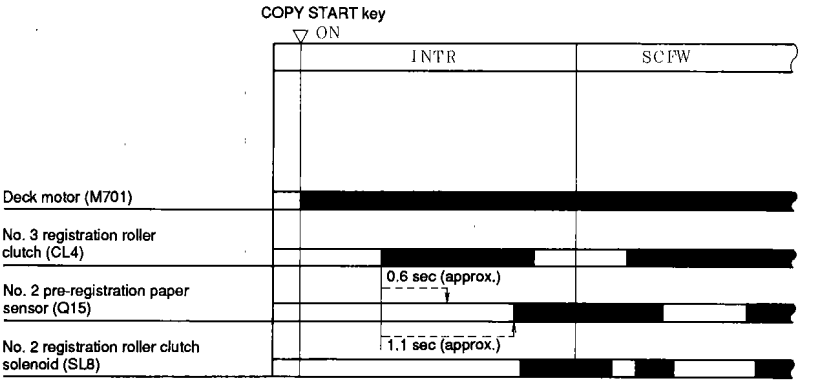

Figure 3-224

d. No. 1 Pre-Registration Jam

The conditions are the same as those of No. 1 pre-registration jams; see Figure 3-221.

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VII. SERVICE MODE

A. Outline

The machine's service mode is divided into the following six modes:

Item	Display	Description
1	DISPLAY	control display mode
2	I/O DISPLAY	I/O display mode
3	ADJUST	adjustment mode
4	FUNCTION	function/inspection mode
5	USER OPTION	machine settings mode
6	COUNTER	counter mode

Table 3-300

B. Using the Service Mode

1) Open the front door, and insert the door switch actuator. To check items under 'I/O display mode' while making copies, set the copy mode.
2) Press the service mode switch (SW501) using a hex key.
   - The machine enters the service mode and indicates '$' on its display.

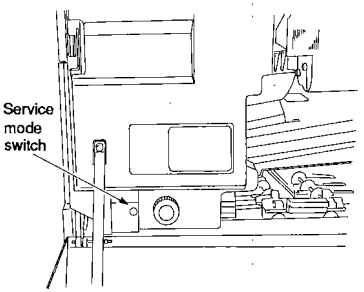

Figure 3-300

3) Enter the No. of the mode (Table 3-300) using the [*] key and the numeric keypad; e.g., press [*], 3, and then [*].
   - The display shows the service mode screen.
4) Press the [△] key or [▽] key to select the desired screen.
5) Make checks or adjustments.
6) Press the RESET key to clear the service mode screen.
7) Press the RESET key once again to leave the service mode.

Note:
Making copies while the service mode screen is displayed slows down the machine.

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■ To ensure that the service modes will be used correctly, the first screen of each mode indicates explanations of the mode together with available keys.
See Figure 3-301 for an sample screen(✳3✳).

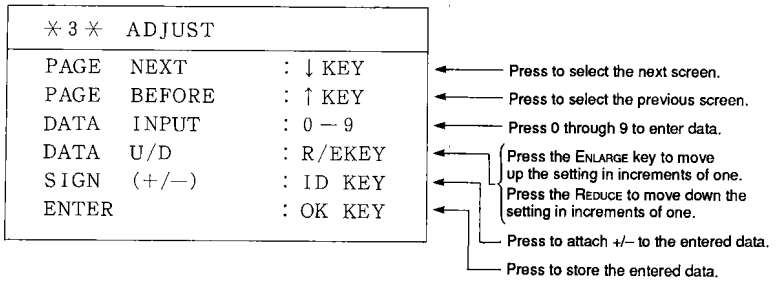
✳3✳ ADJUST
PAGE NEXT : ↓ KEY
PAGE BEFORE : ↑ KEY
DATA INPUT : 0 – 9
DATA U/D : R/EKEY
SIGN (+/–) : ID KEY
ENTER : OK KEY
Press to select the next screen.
Press to select the previous screen.
Press 0 through 9 to enter data.
Press the ENLARGE key to move up the setting in increments of one.
Press the REDUCE to move down the setting in increments of one.
Press to attach +/– to the entered data.
Press to store the entered data.

Figure 3-301

C. Using the Adjustment Mode and the Settings Mode

In the adjustment mode and the settings mode, the settings entered from the control panel will be stored in the RAM on the DC controller PCB; they will be available for later use to serve the functions of VRs and switches.

Figure 3-301 shows the label attached behind the machine's front door.

Each machine is individually adjusted at the factory, and the settings are recorded on the label.

If the DC controller PCB has been replaced or the RAM has bee cleared, it is important that the settings recorded on the label be entered; the DC controller available as a service part holds standard settings. Record all new settings made in the field.

	TYP		
LIGHT_BK			
AE_SLOP			
REGIST			
LE_BLANK			
BRAKE_SC			
GRID_N			
GRID_P			
BIAS_N			

	TYP		
TRN_1			
TRN_2			
SEP_1			
SEP_2			
SZ1_ADJ			
SZ2_ADJ			
SZ3_ADJ			
BK_BELT			
DOC_STOP			

Figure 3-302

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D. Control Display Mode (✳ 1 ✳)

Select the desired screen using the △ and ▽ keys.

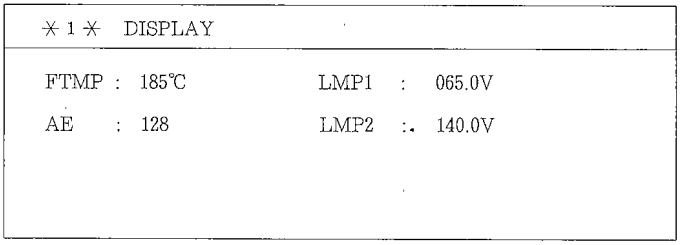

Figure 3-303 DISPLAY1

Item	Description	Remarks
FTMP	surface temperature of the upper fixing roller (output of thermistor)	unit: °C
AE	density of the document (output of AE sensor)	0 to 255
LMP1 LMP2	ON voltage of the scanning lamp LMP1: 100/115V models LMP2: 230V models	unit: V

Table 3-301

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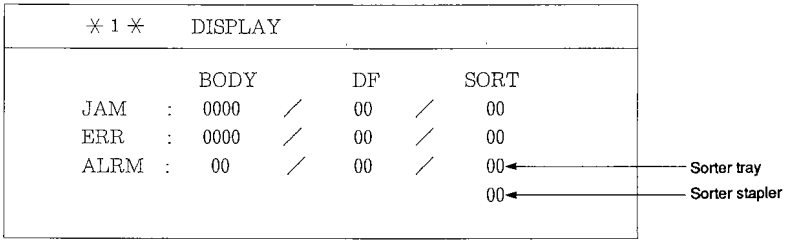

Figure 3-304 DISPLAY2

Item	Description	Remarks
JAM	location of jam BODY: copier (Table 3-303) DF: RDF-B1 (Table 3-304) SORT: Sorter, Stapler Sorter, Stapler Folder (Table 3-305)	flashes*
ERR	Results of self diagnosis (Tables 3-306, -307; for copier, P.O).	flashes*
ALRM	warning (Tables 3-308, -309, -310, -311) EX 'SET DOCUMENT AGAIN'	flashes*

* Indicates the previous condition if the machine is reset by switching it OFF and then ON.

Table 3-302

Code	Type of jam	Code	Type of jam
0000	door open during copying*	0100	delay jam at lower feeder inlet (Q3)
0001	delay jam at No. 3 pre-registration (Q16)	0200	timing/stationary jam at lower feeder inlet (Q3)
0002	timing/stationary jam at No. 3 pre-registration (Q16)	0400	delay jam at lower feeder outlet (Q14)
0004	delay jam at No. 2 pre-registration (Q15)	0800	timing/stationary jam at lower feeder outlet (Q14)
0008	timing/stationary jam at No. 2 pre-registration (Q15)	1000	delay jam at No. 4 pre-registration (Q854)/left feeder assembly (Q753)
0010	delay jam at No. 1 pre-registration (Q5)	2000	timing/stationary jam at No. 4 pre-registration (Q854)/left feeder assembly (Q753)
0020	timing/stationary jam at No. 1 pre-registration (Q5)	4000	delay jam at manual feed (Q4)
0040	delay jam at delivery (Q2)	8000	timing/stationary jam at manual feed (Q4)
0080	timing/stationary jam at delivery (Q2)	FFFF	paper at sensor at power-on

* For details, see '02' and '03' of Table 3-308.

Table 3-303 BODY (copier)

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Code	Description
01	document is pulled out at time of pick-up
02	delay jam identified by pick-up sensor
03	delay jam identified by registration/skew sensor
04	leading edge skew jam identified by registration/skew sensor
05	stationary jam identified by registration/ skew sensor
06	double feeding identified by registration/ skew sensor
07	trailing edge skew jam identified by registration/skew sensor
09	leading edge bend identified by registration/skew sensor
11	delay jam 1 identified by reversal sensor
12	stationary jam identified by reversal sensor
13	delay jam 2 identified by reversal sensor
20	initial stationary jam identified by reversal sensor
21	reversal pick-up delay jam identified by registration/skew sensor
22	reversal leading edge skew jam identified by registration/skew sensor
23	reversal pick-up stationary jam identified by registration/skew sensor
24	reversal trailing edge skew jam identified by registration/skew sensor
26	leading edge bend at time of reversal/ pick-up identified by registration/skew sensor
41	delay jam identified by delivery sensor
42	stationary jam identified by delivery sensor
81	open
82	pick-up tray or upper cover open
83	delivery document not detected by document sensor
84	document detected by sensor at pick-up

Code	Description
85	jam unique to test mode
86	tray guide narrower than delivery document width at delivery
87	double feeding of document (double feeding detection ON)
88	document detected at pick-up of 1st document
89	recycle lever malfunction during document circulation (2nd or later)

Table 3-304 RDF

Code	Description
01	delay jam identified by folded paper sensor
02	stationary jam identified by folded paper sensor
03	delay jam identified by paper sensor
04	stationary jam identified by paper sensor
05	timing jam identified by paper sensor
06	staple jam
07	paper detected by sensor at power-on
08	joint switch or cover switch OFF during copying operation
0A	stationary jam on stapler tray
0B	stapler safety mechanism ON

Table 3-305 Sorter

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Code	Description
01	E401 ON signal
02	E402 ON signal
03	E403 ON signal
04	E404 ON signal
11	E411 ON signal

Table 3-306 RDF Error

Code	Description
10	E510 ON signal
11	E511 ON signal
12	E512 ON signal
14	E514 ON signal
20	E520 ON signal
30	E530 ON signal
31	E531 ON signal
35	E535 ON signal
40	E540 ON signal
41	E541 ON signal

Table 3-307 Sorter Error/Code

Code	Description
02	right door open
03	lower right door open
10	horizontal registration error
30	cleaning belt out
40	waste toner full
61	primary corona wire cleaning error*
62	transfer/separation corona wire cleaning error*
63	primary, transfer/separation corona wires (both) cleaning error*

*The alarm data will be retained in memory until cleared in the user mode ([*] [6] [OK]); during the period, the corona wire cleaning mechanism will be prohibited

Table 3-308 Alarm (copy)

Code	Description
01	recycle lever idle swing
02	document edge sensor does not detect document
03	separation fails at document pick-up
04	skew at document pick-up
05	document overrides stop plate at document pick-up
11	document count different after jam removal
12	document count excess
13	document pulled out during operation

The above data will be sent to the copier when the RDF detects misplacement of the document.

Table 3-309 Alarm (RDF)

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Code	Description
01	paper fold unit power OFF
02	overstacking

Table 3-310 Alarm (sorter tray)

Code	Description
01	stapler down
02	staple jam
05	stapler overstacking
06	stapler full stacking
07	mixed paper size (horizontal)
08	stapler unit absent
09	stapled paper in bin
0A	staple out

Table 3-311 Alarm (sorter stapler)

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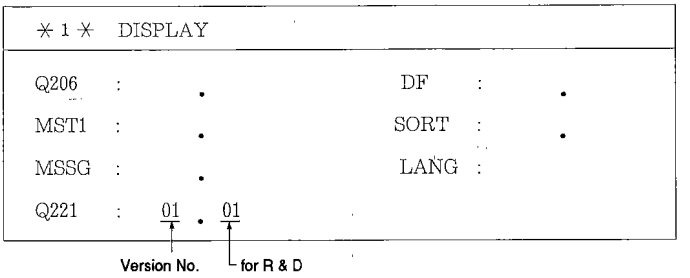

Figure 3-305 DISPLAY3

Item	Description	Remarks
	indicates the version and the language of each ROM	
Q206	version of ROM (sequence and message)	main CPU
MST1	software version of sequence	
MSSG	software version of message	
Q221	version of ROM	sub CPU
DF	version of ROM (RDF)	
SORT	version of ROM (sorter)	
LANG	language	

Table 3-312

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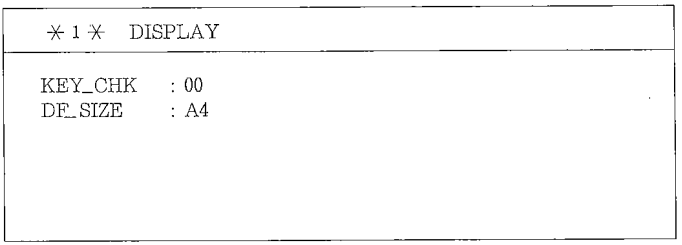

Figure 3-306 DISPLAY4

Item	Description	Remarks
KEY _ CHK	indicates the key code in response to the respective key (except RESET, up/down key); for the key codes, see Table 3-314.	
DF_SIZE	indicates the size of the last document identified by the RDF; for document sizes, see Table 3-315.	

Table 3-313

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Code	Name	Code	Name
00H	numeric keypad 0	20H	M1 key (copy mode memory)
01H	numeric keypad 1	21H	M2 key (copy mode memory)
02H	numeric keypad 2	22H	M3 key (copy mode memory)
03H	numeric keypad 3	23H	STANDBY key
04H	numeric keypad 4	24H	ID key
05H	numeric keypad 5	25H	
06H	numeric keypad 6	26H	FOLD key
07H	numeric keypad 7	27H	SORT/STAPLE/GROUP key
08H	numeric keypad 8	28H	
09H	numeric keypad 9	29H	
0AH	AE key	2AH	
0BH	* key	2BH	
0CH	OK key	2CH	PHOTO key
0DH	CLEAR/STOP key	2DH	
0EH	RESET key*	2EH	
0FH	COPY START key	2FH	MARGIN key
10H	DIRECT key	30H	
11H	OVERLAY MODE key	31H	ERASE key
12H	TWO-SIDED MODE key	32H	INTERRUPT key
13H	TWO-PAGE SEPARATION MODE key	33H	
14H			
15H	ENLARGE key		
16H	REDUCE key		
17H	PAPER SELECT key		
18H	GUIDE key		
19H	AUTO ZOOM key		
1AH	UP SHIFT key**		
1BH	DOWN SHIFT key**		
1CH	DARKER key		
1DH	LIGHTER key		
1EH	ZOOM (+) key		
1FH	ZOOM (–) key		

* Returns to the standard screen when the RESET key is pressed.
** Returns to the previous/next screen when up/down key is pressed.

Table 3-314 Key Codes

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Code	Document size	(unit: mm)
B5	B5	182 × 257
FOOLSCAP	FOOLSCAP	330 × 216
A4	A4	210 × 297
B5R	B5R	257 × 182
B4	B4	364 × 257
A4R	A4R	297 × 210
A3	A3	420 × 297
STMT	STATEMENT	140 × 216
LTR	LETTER	216 × 279
LGL	LEGAL	356 × 216
LTRR	LETTER-R	279 × 216
11 × 17	11 × 17	432 × 279
A5	A5	148 × 210
COMPUTER	Computer form	381 × 279

Table 3-315 Document Sizes

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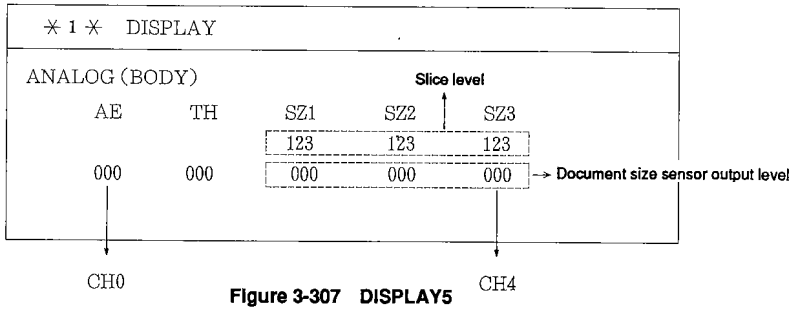

Figure 3-307 DISPLAY5

Microprocessor Input Level (analog signals)

Item		CH	Display	Remarks
ANALOG (BODY; copier)	AE	0	AE sensor output level	000: 0V 255: 5V
	TH	1	thermistor output level	
	SZ1	2	document size sensor output level	
	SZ2	3	document size sensor output level	
	SZ3	4	document size sensor output level	

Table 3-316

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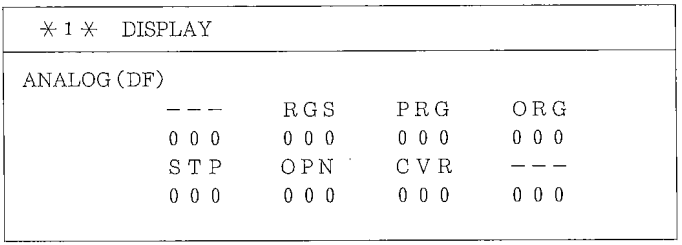

Figure 3-308 DISPLAY6

Microprocessor Input Level (analog signals)

Item		CH	Display	Remarks
ANALOG (DF; RDF-B1 in use)		0	reserved	000: 0V
	RGS	1	registration sensor output level	255: 5V
	PRG	2	pre-registration sensor output level	
	ORG	3	document sensor output level	
	STP	4	document stop position volume	
	OPN	5	RDF switch output	
	CVR	6	upper cover switch output	
		7	reserved	

Table 3-317

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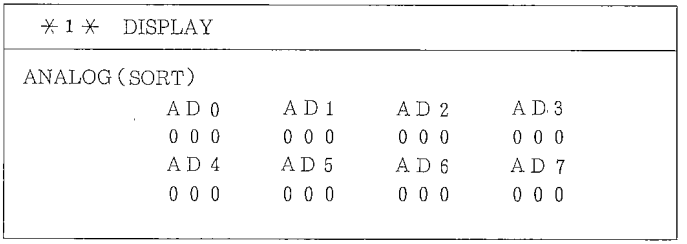

Figure 3-309 DISPLAY7

Microprocessor Input Levels (analog) <Stapler Sorter-A1/Sorter-B1>

Item	Description	Remarks
AD0	Output of bits 3 and 4 (DIP switch; SW1)	Display: 000 — 115 / 116 — 151 / 152 — 215 / 216 — 255 Bit 3: ON / OFF / ON / OFF Bit 4: ON / ON / OFF / OFF
AD1	Output of bit 1 and 2 (DIP siwtch; SW1)	Display: 000 — 115 / 116 — 151 / 152 — 215 / 216 — 255 Bit 1: ON / OFF / ON / OFF Bit 2: ON / ON / OFF / OFF
AD2	Output of bin unit UP/DOWN switch (SW2/SW3)	Display: 000 — 115 / 116 — 151 / 152 — 215 / 216 — 255 SW2 (UP): ON / OFF / ON / OFF SW3(DOWN): ON / ON / OFF / OFF
AD3	For factory	
AD4	Output of Staple sensor (PI 13)	000 — 092: staple present 093 — 255: staple absent
AD5	Reserved	
AD6	Output of bin inside paper sensor (PT1)	000 — 103: paper present 104 — 255: paper absent
AD7	Level of 24V power	000 — 191: power out 192 — 255: returns to normal

Table 3-318A

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Microprocessor Input Levels (analog) <AUTO Stapler Folder-A1>

<table>
<tr><th>Item</th><th>Description</th><th>Remarks</th></tr>
<tr><td>AD0</td><td>Level of 24V power</td><td>000 — 127: 24V not detected
128 — 255: 24V detected</td></tr>
<tr><td>AD1</td><td>Joint sensor (MS2) and stapler cover open/closed sensor (MS5).</td><td><table><tr><th>Display</th><th>MS2</th><th>MS5</th></tr><tr><td>000 — 063</td><td>CLOSE</td><td>CLOSE</td></tr><tr><td>064 — 190</td><td>CLOSE</td><td>OPEN</td></tr><tr><td>191 — 255</td><td>OPEN</td><td>OPEN</td></tr></table></td></tr>
<tr><td>AD2</td><td>Output of lower left door open/closed sensor (MS2) and AC power supply.</td><td><table><tr><th>Display</th><th>MS2</th><th>AC power supply</th></tr><tr><td>000 — 063</td><td>OPEN</td><td>OFF</td></tr><tr><td>064 — 190</td><td>CLOSE</td><td>ON</td></tr><tr><td>191 — 255</td><td>CLOSE</td><td>OFF</td></tr></table></td></tr>
<tr><td>AD3</td><td>Output of swing unit open/closed sensor (MS3).</td><td>000 — 127: closed
128 — 255: open</td></tr>
<tr><td>AD4</td><td>Output of staple tray paper sensor (PI 3).</td><td>000 — 127: paper present
128 — 255: paper absent</td></tr>
<tr><td>AD5</td><td>Reserved</td><td></td></tr>
<tr><td>AD6</td><td>Output of stack tray paper sensor (PI 12).</td><td>000 — 127: paper present
128 — 255: paper absent</td></tr>
<tr><td>AD7</td><td>Output of staple sensor (PT1).</td><td>000 — 090: staple present
091 — 255: staple absent</td></tr>
</table>

Table 3-318B

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Microprosessor Input Levels (analog) <Sorter-A1>

Item	Description	Remarks
AD0	Level of 24V power	000 — 197: 24V not detected 198 — 242: 24V detected
AD1	For factory	
AD2	For factory	
AD3	Reserved	
AD4	Reserved	
AD5	Reserved	
AD6	Reserved	
AD7	Reserved	

Table 3-318C

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E. I/O Display Mode (✳2✳)

Select the desired screen using the △ and ▽ keys.
The input/output (8 bits) of each port may be checked; each address represents the following:

PA0 to PC5: main CPU port
SPA to SPF: sub CPU port
MT6 to MTB: indicates the condition of the switches wired in a matrix (static).
DF0 to DF4: CPU port on RDF controller PCB
ST0 to ST7 CPU port on sorter controller PCB

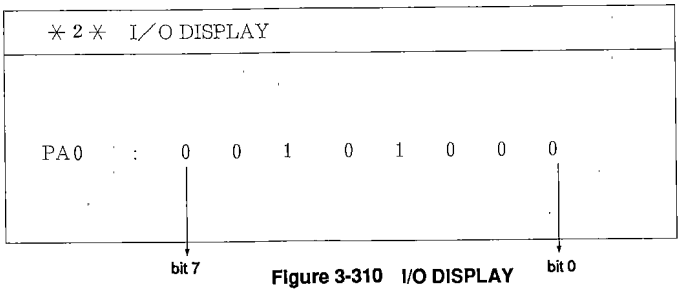

Figure 3-310 I/O DISPLAY

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Address	bit	Signal	Notation	Jack No.	Remarks
PA0	0	manual feed paper sensor (Q4) signal	MFPD	J109-A7	0: paper present
	1	No. 3 pre-registration paper sensor (Q16) signal	PDP7	J109-A9	1: paper present
	2	No. 4 pre-registration paper sensor (Q854) signal Left feeder assembly paper sensor (Q753) signal	PDP8 LPPDE	J108-A8 J702-A9	0: paper present
	3	No. 2 pre-registration paper sensor (Q15) signal	PDP6	J109-A6	0: paper present
	4	No. 1 pre-registration paper sensor (Q5) signal	PDP1	J104-B5	1: paper present
	5	delivery paper sensor (Q2) signal	PDP3	J110-A4	0: paper present
	6	lower feeder inlet paper sensor (Q3) signal	PDP4	J111-B2	0: paper present
	7	lower feeder outlet paper sensor (Q14) signal	PDP5	J109-A5	0: paper present
PB0	0	manual feed shutter solenoid (SL) drive command	MFSSD	J109-B5	1: SL9 ON
	1	No. 1 registration roller clutch (CL1) drive command	RGCD1	J104-B7	1: CL1 ON
	2	No. 2 registration roller clutch solenoid (SL8) drive command	RGSD2	J109-B4	1: SL8 ON
	3	No. 3 registration roller clutch (CL4) drive command	RGCD3	J109-B12	1: CL4 ON
	4	pick-up motor (M803) drive command Deck motor (M701) drive command	PUMD DKMD	J108-B5	1: M803/M701 ON
	5	pick-up roller release solenoid 1 (SL7) drive command	PRSD1	J109-B3	1: SL7 ON
	6	pick-up drive switch solenoid 1 (SL6) drive command	PSSD1	J109-B2	1: SL6 ON
	7	pick-up clutch 1 (CL2) drive command	PUCD1	J109-B1	1: CL2 ON
PC0	0	pick-up clutch 2 (CL801) drive command right pick-up clutch (CL701) drive command	PUCD2 PRUDR	J108-B3	1: CL701/CL801 ON
	1	pick-up drive switch solenoid 2 (SL805) drive command	PSSD2	J108-B2	1: SL805 ON
	2	left pick-up roller release solenoid (SL702) drive signal	LPURL	J108-B11	1: SL702 ON
	3	reserved.			
	4	pick-up roller release solenoid 2 (SL804) drive command right pick-up roller release solenoid (SL701) drive command	PRSD2 PRURL	J104-B1	1: SL701/SL804 ON

Table 3-319A

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Address	bit	Signal	Notation	Jack No.	Remarks
PC0	5	No. 4 registration roller clutch solenoid (SL802) drive command left feeder drive clutch (CL703) drive command	RGSD4 LPPDR	J108-B1	1: CL703/802 ON
	6	power switch (SW1) OFF command	PWOFF	—	1: SW1 OFF; if error in lamp/heater, PWOFF=0 regardless of the state.
	7	reserved.			
PA1	0	cassette 1 lifter position sensor (Q12) signal	C1LTP	J103-A3	1: lifter UP
	1	cassette 2 lifter position sensor (Q13) signal	C2LTP	J109-A4	1: lifter UP
	2	cassette 3 lifter position sensor (Q851) signal	C3LTP	J108-B7	1:lifter UP
	3	cassette 4 lifter position sensor (Q853) signal	C4LTP	J108-A10	1: lifter UP
	4	scanner home position sensor (Q8) signal	SCHP	J114-B5	1: at home position
	5	reserved.			
	6	copyboard cover open/closed sensor (MS2) signal	CBCC	J102-A7	0: closed
	7	reserved.			
PB1	0	cassette 1 lifter motor (M8) drive command	C1LTMD	J109-A13	1: M8 ON
	1	cassette 2 lifter motor (M9) drive command	C2LTMD	J109-A14	1: M9 ON
	2	cassette 3 lifter motor (M801) drive command	C3LTMD	J108-B8	1: M801 ON
	3	cassette 4 lifter motor (M802) drive command	C4LTMD	J108-A11	1: M802 ON
	4	reserved.			
	5	cleaning belt drive solenoid (SL2) drive command	CLBSD	J111-A5	1: SL2 ON
	6	counter (CNT1, CCV) drive command	CNT1D CCD	J110-B1 J101-B8	0: counter ON
	7	counter (CNT2) drive command	CNT 2D	J110-B3	1: CNT2 ON
PC1	0	hopper motor (M10) drive command	HMD	J111-A1	1: M10 ON
	1	heat exhaust fan (FM2) drive command	FM2D	J120-2	1: FM2 ON
	2	heat exhaust fan (FM2) high-speed rotation command	FM2STB	J120-1	1: high-speed rotation
	3	scanner cooling fan (FM1) drive command	FM1D	J102-B9	1: FM1 ON

Table 3-319B

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Address	bit	Signal	Notation	Jack No.	Remarks
PC1	4	feeder fan (FM3) drive command	FM3D	J117-2	1: FM3 ON
	5	main motor (M1), pre-exposure lamp (LA2) drive command	$\overline{\text{MMD}}$ $\overline{\text{PEXP}}$	J102-A5 J102-B1	1: M1, LA2 ON
	6	scanner motor (M2) drive command	$\overline{\text{SCMD}}$	J102-A1	1: M2 ON
	7	scanner forward command	$\overline{\text{SCFW}}$	J102-A2	1: scanner forward
PA2	0	cassette 1 paper sensor (Q10) signal	C1PD	J109-A1	1: paper present
	1	cassette 2 paper sensor (Q11) signal	C2PD	J109-A2	1: paper present
	2	cassette 3 paper sensor (Q850) signal right deck paper sensor (Q751) signal	C3PD RPADE	J108-B6	1: paper present
	3	cassette 4 paper sensor (Q852) signal left deck paper sensor (Q752) signal	C4PD LPADE	J108-A9	1: paper present
	4	reserved.			
	5	reserved.			
	6	black toner supply signal (Q17)	$\overline{\text{BTSP}}$	J111-A13	0: black toner supply
	7	control card sensor signal (CCV)	$\overline{\text{CCDT}}$	J111-B7	0: control card present
PB2	0	D/A converter data 0	DA DATA0	—	
	1	D/A converter data 1	DA DATA1	—	
	2	D/A converter data 2	DA DATA2	—	
	3	reserved.			
	4	reserved.			
	5	reserved.			
	6	scanning lamp (LA1) ON command	$\overline{\text{LRD}}$	J109-A4	1: LA1 ON
	7	fixing heater (H1) ON signal	$\overline{\text{HTRD}}$	J109-B14	1: H1 ON
PC2	0	delivery motor (M7) CW/CCW switch command	DFFW	—	
	1	DP request signal	DPRQ	—	
	2	lower feeder drive command	LFON	—	
	3	CCV count command	CCNTD	J110-B8	O: ON
	4	primary corona wire cleaner reverse command	$\overline{\text{PCLMR}}$	—	1 } for- ward 0 } re- verse 0
	5	primary corona wire cleaner forward command	$\overline{\text{PCLMF}}$	—	0 } for- ward 1 } re- verse 1

Table 3-319C

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Address	bit	Signal	Notation	Jack No.	Remarks
PC2	6	transfer/separation corona wire cleaner reverse command	$\overline{\text{TCLMR}}$	—	1 } for- 0 } ward / 0 } re- 1 } verse
	7	transfer/separation corona wire cleaner forward command	$\overline{\text{TCLMF}}$	—	
PA3	0	key read signal 0	RTN0	J104-A6 J112-4 J108-A7	reads input from switches on control panel
	1	key read signal 1	RTN1	J104-A5 J112-3 J108-A6	
	2	key read signal 2	RTN2	J104-A4 J112-6 J108-A5	
	3	key read signal 3	RTN3	J104-A3 J112-5 J108-A4	
	4	key read signal 4	RTN4	J112-8 J108-A3	
	5	key read signal 5	RTN5	J112-7	
	6	key read signal 6	RTN6	J112-10	
	7	key read signal 7	RTN7	J112-9 J111-B9	
PB3	0	oscillation signal 0	KDGT0	J112-11	power supply for reading input from switches on control panel
	1	oscillation signal 1	KDGT1	J112-14	
	2	oscillation signal 2	KDGT2	J112-13	
	3	oscillation signal 3	KDGT3	J112-16	
	4	oscillation signal 4	KDGT4	J112-15	
	5	oscillation signal 5	KDGT5	J112-18	
	6	oscillation signal 6	KDGT6	J110-17 J107-8	
	7	oscillation signal 7	KDGT7	J104-A1	
PC3	0	oscillation signal 8	KDGT8	J104-A2	
	1	oscillation signal 9	KDGT9	J108-A2	
	2	oscillation signal 10	KDGT10	J108-A1	
	3	oscillation signal 11	KDGT11	J121-11	
	4	developing bias AC drive command	$\overline{\text{HVBAC}}$	J103-B8	1: developing bias AC component ON
	5	AC transformer drive command	$\overline{\text{HVAC}}$	J104-A7	1: AC transformer ON
	6	control panel lamp drive command	CPLD	J112-34	1: lamp ON

Table 3-319D

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Address	bit	Signal	Notation	Jack No.	Remarks
PC3	7	oscillation signal	WATCHDOG1	—	checking erratic error
PA4	0	reserved.			
	1	manual feed door sensor (MS4) signal	$\overline{\text{MFDC}}$	J109-A8	0: door closed
	2	lower right door sensor (MS801/MS703) signal	$\overline{\text{RLDC}}$ RDODE	J108-B9	0: door closed
	3	scanner motor PLL lock signal	$\overline{\text{M2LK}}$	J102-A4	0: rotation normal
	4	main motor PLL lock signal	$\overline{\text{M1LK}}$	J102-A6	0: rotation normal
	5	SSR error sensor signal	SRER	J103-A5	0: error
	6	waste toner sensor (MS1) signal	$\overline{\text{WTOF}}$	J102-A9	alternately '1' and '0' when drum is full of waste toner.
	7	counter (CNT1) open circuit signal	CANTRERR	J110-B1	1: CNT1 open circuit
PB4	0	oscillation signal 0	LDGT0	J112-28	control panel LED ON power supply
	1	oscillation signal 1	LDGT1	J112-27	
	2	oscillation signal 2	LDGT2	J112-30	
	3	oscillation signal 3	LDGT3	J112-29	
	4	oscillation signal 4	LDGT4	J112-32	
	5	oscillation signal 5	LDGT5	J112-31	
	6	reserved.			
	7	power check LED ON command	$\overline{\text{PLEDD}}$	J112-33	1: LED ON
PC4	0	ON signal 0	SEG0	J112-20	control panel LED ON signal
	1	ON signal 1	SEG1	J112-19	
	2	ON signal 2	SEG2	J112-22	
	3	ON signal 3	SEG3	J112-21	
	4	ON signal 4	SEG4	J112-24	
	5	ON signal 5	SEG5	J112-23	
	6	ON signal 6	SEG6	J112-26	
	7	ON signal 7	SEG7	J112-25	
PA5	0	primary corona wire cleaner home position sensor (MS7)	$\overline{\text{PCLHP}}$	J102-B7	0: HP
	1	transfer/separation corona wire cleaner home position sensor (MS8)	$\overline{\text{TSCHP}}$	J117-7	0: HP
	2	primary corona wire cleaner reversal sensor (MS6)	$\overline{\text{PCLRP}}$	J102-B5	0: reversal position

Table 3-319E

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Address	bit	Signal	Notation	Jack No.	Remarks
PA5	3	transfer/separation corona wire cleaner reversal sensor (MS5)	$\overline{\text{TSCHP}}$	J117-5	0: reversal position
	4	DP busy signal	DPBS	—	
	5	reserved.			
	6	hopper black toner out signal	$\overline{\text{BTEP}}$	J111-A10	0: below specified level
	7	power switch OFF command open circuit signal	$\overline{\text{PWOFF}}$	J111-A7	0: normal
PB5		reserved.			
PC5		reserved.			
SPA	0	lower feeder No. 1 motor (M5) drive command	LF1A	J109-B6	alternates between '1' and '0' while M5 rotates
	1		LF1B	J109-B9	
	2		$\overline{\text{LF1A}}$	J109-B7	
	3		$\overline{\text{LF1B}}$	J109-B10	
	4	lower feeder No. 2 motor (M6) drive command	LF2A	J118-1	alternates between '1' and '0' while M6 rotates
	5		LF2B	J118-4	
	6		$\overline{\text{LF2A}}$	J118-2	
	7		$\overline{\text{LF2B}}$	J118-5	
SPB	0	delivery feeder motor (M7) drive command	DFA	J110-A6	alternates between '1' and '0' while M7 rotates
	1		DFB	J110-A9	
	2		$\overline{\text{DFA}}$	J110-A7	
	3		$\overline{\text{DFB}}$	J110-A10	
	4	lens motor (M3) drive command	$\overline{\text{LNA}}$ LNA	J114-A2 J114-A1	alternates between '1' and '0' while M3 rotates
	5		$\overline{\text{LNB}}$ LNB	J114-A5 J114-A3	
	6	horizontal registration motor (M4) drive command	$\overline{\text{CRGA}}$ CRGA	J103-8 J103-7	alternates between '1' and '0' while M4 rotates
	7		$\overline{\text{CRGB}}$ CRGB	J103-11 J103-10	
SPC	0	lens motor (M3) power supply switch signal	LNSTB	J114-A4	1: 5V 0: 24V
	1	horizontal registration motor (M4) power supply switch signal	CRGSTB	J103-A9	1: 5V 0: 24V
	2	delivery motor (M7) FW/RV switch command	DFFW	—	0: clockwise rotation
	3	DP request signal	DPRQ	—	

Table 3-319F

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Address	bit	Signal	Notation	Jack No.	Remarks
SPC	4	lower feeder control signal	DFCTL	—	
	5	lower feeder outlet paper sensor (Q14) signal	$\overline{\text{PDP5}}$	J109-A5	0: paper present
	6	lens home position sensor (Q7) signal	LHP	J114-B13	1: at home position
	7	horizontal paper edge sensor (Q6) signal	PDP2	J104-B2	1: paper present
SPF	0	oscillation signal 0	BDGT0	J119-2	blank exposure lamp ON power supply
	1	oscillation signal 1	BDGT1	J119-1	
	2	oscillation signal 2	BDGT2	J119-3	
	3	oscillation signal 3	BDGT3	J119-34	
	4	oscillation signal 4	BDGT4	J119-31	
	5	blank exposure lamp intensity switch	BSTRONG	—	
	6	DP busy signal	DPBS	—	
	7	side blank exposure lamp ON command	SBLNC	J119-6	
MT6	0	key read signal	RTN0	—	reads input from switches on control panel
	1		RTN1	—	
	2		RTN2	—	
	3		RTN3	—	
	4	reserved.			
	5	reserved.			
	6	reserved.			
	7	reserved.			
MT7	0	cassette 1 (machine top) size switch	RTN0	J104-A6	when pressed, '1'
	1		RTN1	J104-A5	
	2		RTN2	J104-A4	
	3		RTN3	J104-A3	
	4	inch configuration connect signal	RTN4	—	depends on combination with SW101 on DC controller PCB
	5	metric configuration connect signal	RTN5	—	
	6	counter non-Japanese configuration connect signal	RTN6	—	
	7	reserved.			
MT8	0	cassette 2 (machine bottom) size switch	RTN0	J104-A6	when pressed, '1'
	1		RTN1	J104-A5	

Table 3-319G

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Address	bit	Signal	Notation	Jack No.	Remarks
MT8	2	cassette 2 (2nd) size switch	RTN2	J104-A4	when pressed, '1'
	3		RTN3	J104-A3	
	4	reserved.			
	5	reserved.			
	6	reserved.			
	7	service mode input push switch (SW501)	RTN7	J111-B1	1: SW501 ON
MT9	0	cassette 3 (cassette feeding unit top) size switch/paper deck pedestal size switch	RTN0	J108-A7	when pressed, '1'; if paper deck pedestal, PTN2 is reserved.
	1		RTN1	J108-A6	
	2		RTN2	J108-A5	
	3		RTN3	J108-A4	
	4	cassette feeding unit/paper deck pedestal connect signal	RTN4	J108-A3	*
	5	reserved.			
	6	reserved.			
	7	reserved.			
MTA	0	cassette 4 (cassette feeding unit bottom) size switch/paper deck pedestal size switch	RTN0	J108-A7	when pressed, '1'.
	1		RTN1	J108-A6	
	2		RTN2	J108-A5	
	3		RTN3	J108-A4	
	4	cassette feeding unitl/paper deck pedestal connect signal	RTN4	J108-A3	*
	5	reserved.			
	6	reserved.			
	7	reserved.			
MTB		for factory.			

Table 3-319H

* The cassette feeding unit and the paper deck pedestal are distinguished based on the following combinations:

Address	bit	Cassette feeding unit	Paper deck pedestal
MT9	4	1	0
MTA	4	1	1

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RDF-B1

Address	bit	Signal	Notation	Jack No.	Remarks
DF0	0	recycle motor (M4) drive command	RMD	J8-6	1: motor ON
	1	document set indicator LED ON command	$\overline{\text{DSD}}$	J8-4	0: LED ON
	2	reserved.			
	3	brake drive command	$\overline{\text{BKD}}$	J6-2	0: brake ON
	4	stop plate solenoid (SL1) drive command	$\overline{\text{STPSLD}}$	J5-4	0: solenoid ON
	5	paper deflector plate solenoid (SL3) drive command	$\overline{\text{DFSLD}}$ FLPSL	J4-2	0: solenoid ON
	6	for microprocessor	—	—	
	7	mixed document size mode switch input	$\overline{\text{DSM}}$	J8-7	0: mode set
DF1	0	mixed document size mode indicator LED ON command	$\overline{\text{DSMD}}$	J8-8	0: LED ON
	1	belt motor pulse signal	BMPWM		
	2	belt motor rotation direction signal	BMRD	—	1: CCW 0: CW
	3	belt motor (M3) drive command	BMON	—	1: ON
	4	feeder motor (M2) drive command	FMD	J11-1	1: ON
	5	feeder motor short brake signal	$\overline{\text{FMON}}$	—	
	6	pick-up motor (M1) drive command	PUMD	J12-1	1: motor ON
	7	paper retainer solenoid (SL2) drive command	$\overline{\text{WSLD}}$	J5-2	0: solenoid ON
DF2	0	for communication with external devices	DI	—	
	1	for communication with external devices	DO	—	
	2	for microprocessor			
	3	belt motor clock sensor (S10) signal	BMCLK	J9-23	
	4	for microprocessor	—	—	
	5	for microprocessor	—	—	
	6	for microprocessor	—	—	
	7	for microprocessor	—	—	
DF3	0	reversal sensor (S8) signal	PDP5	J9-17	1: paper present
	1	pick-up roller sensor (S5) signal	$\overline{\text{PUSP}}$	J9-8	1: pick-up roller at home position
	2	pick-up sensor (S7) signal	PDP1	J9-14	1: paper present
	3	delivery sensor (S6) signal	PDP2	J9-11	1: paper present

Table 3-320A

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Address	bit	Signal	Notation	Jack No.	Remarks
DF3	4	recycle sensor (S11) signal	LDD	J8-2	0: recycle lever on document
	5	LED1 ON signal	LED1	—	
	6	LED2 ON signal	LED2	—	
	7	LED3 ON signal	LED3	—	
DF4	0	DIP switch setting	DIPSW1	—	
	1	DIP switch setting	DIPSW2	—	
	2	DIP switch setting	DIPSW3	—	
	3	DIP switch setting	DIPSW4	—	
	4	DIP switch setting	DIPSW5	—	
	5	DIP switch setting	DIPSW6	—	
	6	push switch signal	SW1	—	
	7	editor set signal	$\overline{\text{DCNT}}$	J10-3	0: editor set

Table 3-320B

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Sorter-A1

Address	bit	Signal	Notation	Jack No.	Remarks
ST0	0	lead cam position sensor (PI1) signal	LCHP	J4-2	1: lead cam home position
	1	non-sort position sensor (PI2) signal	BNSP	J4-5	1: bin at non-sort position
	2	push switch (SW2)	—	—	0: SW2 ON
	3	push switch (SW3)	—	—	0: SW3 ON
	4	DIP switch (SW1-1)	—	—	0: SW1-1 PN
	5	DIP switch (SW1-2)	—	—	0: SW1-2 ON
	6	joint switch (MS1)	$\overline{SIP}$	J4-7	0: MS1 ON
	7	paper sensor (PI3) signal	$\overline{PDP}$	J5-2	0: paper present
ST1	0	bin motor down signal	BMDWN	—	1: bin DOWN
	1	bin motor up signal	BMUP	—	1: bin UP
	2	paper deflector plate solenoid (SL1)	PDSD	J6-2	1: SL1 ON
	3	reserved.			
	4	LED1 ON signal	—	—	0: LED1 ON
	5	reserved			
	6	reserved.			
	7	reserved.			
ST2	0	for factory.		J2-7	
	1			J2-5	
	2			J2-3	
	3			J2-1	
	4	reserved.			
	5	reserved.			
	6	feeder motor (M2) drive command	PFMD	J5-4	1: M2 ON
	7	IPC error signal			
ST3		address/data bus	—	—	
ST4		address bus	—	—	

Table 3-321

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Stapler Sorter-A1/Sorter-B1

Address	bit	Signal	Notation	Jack No.	Remarks
ST0	0	reserved.			
	1	stapling home position sensor (PI12)	SPL-HP	J11-3	1: stapling home position
	2	stapler unit swing sensor (MS9) signal	SWG SET	J8-5	1: home position or stapling position
	3	stapler cover open/closed sensor (MS5) signal	SPLOPN	J10-3	1: stapler cover open
	4	guide bar home position sensor (PI7) signal	SGBHP	J12-6	1: at home position
	5	lead cam home position sensor (PI5) signal	LCHP	J14-5	1: at home position
	6	reserved.			
	7	reserved.			
ST1	0	guide bar swing motor (M3) phase A excitation signal	$\overline{MA}$	J13-3, 5	alternates between '1' and '0' while motor rotates
	1	guide bar swing motor (M3) phase B excitation signal	$\overline{MB}$	J13-4, 6	
	2	guide bar swing motor (M3) drive command	MON	J13-2	1: motor ON
	3	stapler motor (M4) forward rotation signal	$\overline{SPLMFW}$	—	0: forward
	4	stapler motor (M4) reverse rotation signal	$\overline{SPLMRW}$	—	0: reverse
	5	switch-back path solenoid (SL1) drive command	$\overline{PSLD}$	J7-8	0: SL1 ON
	6	paper path switch solenoid (SL2) drive command	PSLD	J7-8	0: SL2 ON
	7	paper retainer solenoid (SL3) drive command	PHSLD	J5-2	0: SL3 ON
ST2	0	motor switch signal	—	—	
	1	stapling ready indicator ON signal	SPLOK	J8-4	1: LED ON
	2	bin paper sensor LED ON signal	BPD	J12-2	
	3	motor clock signal	—	—	
	4	stapler unit swing motor (M5) drive command	$\overline{SWGMD}$	J9-1	1: M5 ON
	5	feeder motor clock sensor (PI6) signal	FMCLK	J5-4	
	6	reserved.			
	7	feeder motor (M1) brake signal	—	—	1: M1 OFF

Table 3-322A

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Stapler Sorter-A1/Sorter-B1

Address	bit	Signal	Notation	Jack No.	Remarks
ST3	0	stapling position sensor signal	SPD	J8-8	1: paper present
	1	reserved.			
	2	manual stapling key signal	MNSPL	J8-1	0: switch ON
	3	non-sort paper sensor signal	$\overline{\text{NSPEXT}}$	J7-5	0: paper present
	4	sort paper sensor signal	$\overline{\text{SPEXT}}$	J7-2	0: paper present
	5	bin unit home position sensor signal	BHP	J14-2	1: bin unit at home position
	6	joint sensor signal	$\overline{\text{SOP}}$	J2-2	0: sorter released
	7	reset signal	—	—	
ST4	0	stapler position set sensor signal	SPL-SET	J10-6	0: stapler position
	1	reserved.			
	2	reserved.			
	3	reserved.			
	4	reserved.			
	5	reserved.			
	6	reserved.			
	7	reserved.			

Table 3-322B

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Auto Stapler Folder-A1

Address	bit	Signal	Notation	Jack No.	Remarks
ST0	0	stapler guide plate drive motor (M7) drive pulse signal	PMA	J7-11	alternates between '1' and '0' while M7 rotates
	1		$\overline{\text{PMA}}$	J7-12	
	2		PMB	J7-13	
	3		$\overline{\text{PMB}}$	J7-14	
	4	staple guide plate drive motor (M7) drive power supply	PMON	J7-9	1: drive power supply ON
	5	No. 2 paper path drive solenoid (SL3) drive command	$\overline{\text{P2SLD}}$	J4-2	0: SL3 ON
	6	paper deflector plate 1 solenoid (SL1) drive command	$\overline{\text{D1SLD}}$	J4-4	0: SL1 ON
	7	paper deflector 2 solenoid (SL2) drive command	$\overline{\text{D2SLD}}$	J4-6	0: SL2 ON
ST1	0	feeder motor (M1) drive command	FMD	J7-3	1: M1 ON
	1	No. 1 delivery motor (M4) drive command	DM1D	J7-1	1: M4 ON
	2	No. 2 delivery motor (M2) forward rotation signal	$\overline{\text{DM2FW}}$	—	1: M2 forward
	3	No. 2 delivery motor (M2) reverse signal	$\overline{\text{DM2RW}}$	—	1: M2 reverse
	4	stapler motor (M6) forward rotation signal	$\overline{\text{SPLMFW}}$	—	0: M6 forward
	5	stapler motor (M6) reverse rotation signal	$\overline{\text{SPLMRV}}$	—	0: M6 reverse
	6	shift motor (M8) drive command	SFMD	J5-5	1: M8 ON
	7	swing unit drive motor (M5) drive command	SWMD	J7-5	1: M5 ON
ST2	0	No. 2 delivery motor clock sensor (PI2) signal	DM2CLK	J9-B13	alternates between '1' and '0' while M2 rotates
	1	stack motor clock sensor (PI10) signal	STMCLK	J6-2	alternates between '1' and '0' while M3 rotates
	2	staple guide plate home position sensor (PI1) signal	SGHP	J9-A13	1: home position
	3	No. 1 delivery motor clock sensor (PI6)	DMICLK	J9-B7	alternates between '1' and '0' while M1 rotates
	4	No. 1 paper path sensor (PI9) singnal	$\overline{\text{PP1D}}$	J9-A10	0: paper present
	5	No. 2 paper path sensor (PI8) signal	$\overline{\text{PP2D}}$	J9-B10	0: paper present
	6	swing unit home position sensor (PI7) signal	$\overline{\text{SWHP}}$	J9-A4	0: swing unit at top or bottom

Table 3-323A

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Auto Stapler Folder-A1

Address	bit	Signal	Notation	Jack No.	Remarks
ST2	7	sub tray solenoid (SL4) drive command	$\overline{SSLD}$	J5-4	0: SL4 ON
ST3	0	stack tray upper limit sensor (MS6) signal	$\overline{VLS}$	J4-10	1: stack tray top topmost
	1	stack tray lower limit sensor (MS7) signal	$\overline{LLS}$	J4-12	1: stack tray bottommost
	2	stack tray shift width sensor (MS8) signal	$\overline{SFTW}$	J6-10	0: left/right shift end
	3	stack tray left/right position sensor (PI11) signal	$\overline{LPD}$	J6-5	0: stack tray left
	4	DIP switch (SW1-1)	—		for factory.
	5	DIP switch (SW1-2)	—		0: ON
	6	DIP switch (SW1-3)	—		0: ON
	7	manual stapling key (SW10) signal	MNSPL	J9-B4	0: key ON
ST4	0	folder feeder motor (M1) drive command	$\overline{PFMD}$	J10-6	1: M1 ON
	1	skew correction solenoid (SL8) drive command	$\overline{SRSD}$	J11-8	1: SL8 ON
	2	lock solenoid (SL3) drive command	$\overline{PSD}$	J11-5	1: SL3 ON
	3	B4Z-fold No. 1 solenoid (SL4) drive command	$\overline{ZMSD}$	J11-4	1: SL4 ON
	4	A3Z-fold solenoid (SL5) drive command	$\overline{ZLSD}$	J11-3	1: SL5 ON
	5	B4 1/2-fold solenoid (SL6) drive command	$\overline{HMSD}$	J11-2	1: SL6 ON
	6	middle deflector plate solenoid (SL2) drive signal	$\overline{PMSD}$	J11-6	1: SL2 ON
	7	B4 Z-fold No. 2 solenoid (SL7) drive command	$\overline{ZMSSD}$	J11-1	1: SL7 ON
ST5	0	paper folder unit connect signal	$\overline{PFSET}$	J10-3	0: paper fold unit present
	1	folded paper sensor (PT3) signal	$\overline{PD}$	J10-3	0: paper present
	2	stapling home position sensor (MS4) signal	SPLHP	J8-3	1: home position
	3	stapler unit connect signal	$\overline{SPLSET}$	J8-1	0: stapler unit present
	4	reserved.			
	5	reserved.			
	6	stack motor (M3) down signal	$\overline{STMDWN}$		1: M3 forward
	7	stack motor (M3) up signal	$\overline{STMUP}$		1: M3 reverse

Table 3-323B

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Auto Stapler Folder-A1

Address	bit	Signal	Notation	Jack No.	Remarks
ST6	0	reserved.			
	1	reserved.			
	2	reserved.			
	3	swing unit open/closed sensor (MS3) signal	SWDWN	J2-4	0: swing unit closed
	4	staple tray paper sensor (PI3) signal	SPD	J9-A16	1: paper present
	5	stack level sensor (PI4) signal	STL	J9-B16	1: paper is on stack tray
	6	stack tray paper sensor (PI12) signal	STD	J6-8	1: paper present
	7	staple sensor (PT1) signal	HKEMP	J8-6	0: staple present
ST7	0	joint sensor (MS2) signal	$\overline{\text{SOP}}$	J2-2	0: not connected to copier
	1	stapler cover open/closed sensor (MS5) signal	$\overline{\text{SPLOPN}}$	J4-8	0: stapler cover open
	2	paper folder unit power supply sensor signal	PFPW	J10-5	1: power available
	3	lower left door open/closed sensor (MS2) signal	LLOPN	J12-1	0: lower left door open
	4	reserved.			
	5	reserved.			
	6	reserved.			
	7	reserved.			

Table 3-323C

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F. Adjustment Mode (✳3✳)

Select the desired screen using the △ and ▽ keys.

- Enter the settings using the numeric keypad.
- Reverse the +/– using the ID key.
- Press the OK key to store the settings; the settings must be within the ranges given.

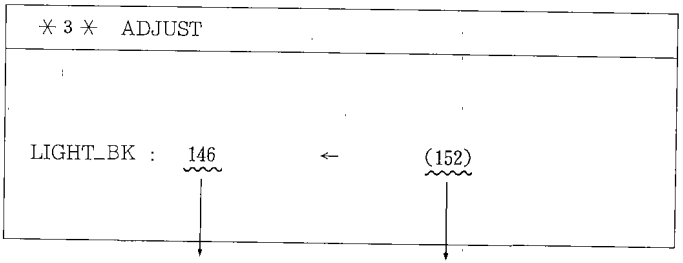

Figure 3-311 ADJUST Screen

Item	Adjustment	Range	Remarks
LIGHT_BK	intensity at copy density 5 (both manual and AE)	80 to 215	A higher setting decreases the copy density; in units of 0.14 V.
AE_SLOP	AE slope	0 to 255	A higher setting decreases the density of newspaper copies.
REGIST	leading edge margin (registration roller ON timing)	0 to 255	A higher setting delays the registration roller ON timing; in units of 0.48 mm.
LE_BLANK	leading edge non-image width (blank exposure LED OFF timing)	1 to 255	A higher setting delays the blank exposure LED OFF timing, thereby increasing the leading edge non-image width; in units of 0.2 mm.

Table 3-324A

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Item	Adjustment	Range	Remarks
BRAKE_SC	scanner stop position (scanner brake ON timing)	1 to 50	A higher setting moves the stop position to the left; in units of 2 ms.
GRID_N	grid bias	0 to 63	A higher setting (closer to 63) increases the bias (closer to –960 V), thereby increasing the copy density.
GRID_P	grid bias in photo mode		
BIAS_N	development bias (DC component) in black copy mode		A higher setting (closer to 63) increases the bias (closer to –500 V), thereby decreasing the copy density.
TRN_1	transfer current		A higher setting (closer to 63) increases the current.
TRN_2	transfer current for 2nd page of overlay/two-sided copy		
SEP_1	separation current		A higher setting (closer to 63) increases the current.
SEP_2	separation current for 2nd page of overlay/two-sided copy		
SZ1_ADJ SZ2_ADJ SZ3_ADJ	for factory		
BK_BELT	for factory.		
DOC_STOP	document stop position (for RDF)	–7 to +7	A higher setting moves the document to the right (pick-up direction); in units of 0.33 mm. For details, see p. 3-163.

Table 3-324B

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G. Function/Inspection Mode (✳4✳)

- Select the desired screen using the △ and ▽ keys.
- Press the OK key to execute the operation; a second press stops the operation.

The operation under each time must be executed in the standby state only.

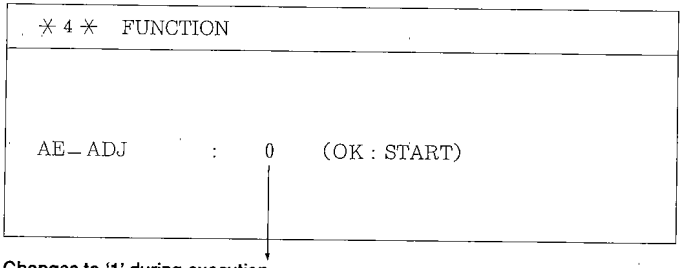

Figure 3-312 FUNCTION Screen

Item	Adjustment	Remarks
TONER_S	toner supply at time of installation	supplies toner to developing assembly automatically; 7 min max.
AE_ADJ	AE scan intensity	after execution, returns to '0' automatically and stops; see p. 3-157.
LCD-CHK	LED on control panel (ON)	Check for missing dots (reverse video screen).
ERROR	E000, E001, E002, E003, E004, E020; waste toner full message clear	
SCANLAMP	scanning lamp ON (check)	if ON for 40 sec or more, lamp error ON circuit goes ON to cut off power.
HPPR_MTR	hopper motor operation/No. 3 registration roller clutch operation (check)	*Do not keep it ON for long, or toner will overflow the black developing assembly.* (hopper motor)
DISP_LED	control panel LED ON (check)	flashes
BLANK	blank exposure lamp LED all ON	Make sure that the drum unit has been detached first.
RAM_INIT	RAM data initialization	initializes the data in RAM on the DC controller; execution must be limited to after replacement of the DC controller. After execution, enter the settings (✳3✳) recorded on the label.

Table 3-325

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H. User Option Mode (✳5✳)

- Select the desired screen using the △ and ▽ keys.
- Change the settings using the numeric keypad.
- Press the OK key to store the settings.

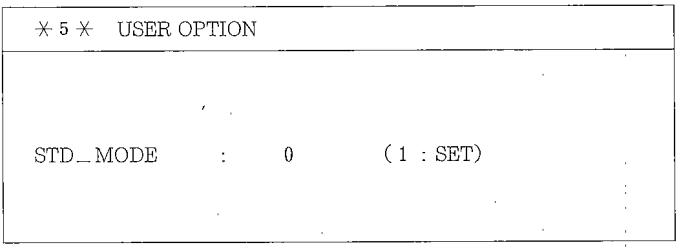

Figure 3-313 USER OPTION Screen

Item	use	Description	Remarks
STD_MODE	sets the standard mode	allows automatic selection of modes in response to a press on the RESET key.	have the desired mode displayed, select the item, and press the OK key.
AUTO_CAS	enables/disables auto cassette change mechanism	when enabled, the mechanism automatically switches cassettes when the selected cassette runs out of paper during continuous copying; both cassettes must have paper of the same size. 1: disable 0: enable	
1_SORT	selects sort mechanism for 1st document	when enabled, sorting/grouping will be possible even when the document is a single-page document (RDF in use). 0: disable 1: enable	
BIND	selects image shift A or B	when enabled, a binding margin may be created on the 2nd side of the page when in the 'one-sided documents to two-sided copy' or 'two-sided document to one-sided copies' mode. 0 (A): enable 1 (B): disable	

Table 3-326A

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Item	use	Description	Remarks
MODE_INT	initializes standard mode	Resets the data stored under 'STD-MODE' and under "USER OPTION' (*5*); after execution, the settings will be those stored at the factory.	Defaults: • DIRECT • auto paper selection • AE • 1 copy
SHUT_OFF	enables/disables auto shut-off mechanism	enables or disables the auto shut-off time (2 hr.). 0: enable 1: disable	
SIZE_DET	enables/disables size identification	enables or disables the document size identification mechanism. 0: enable 1: disable	
DATE_TIM	enables/disables display of date/time	0: enably 1: disable	
DATE_SEL	selects mode of date display	enables selection of any of the following: if April 26, 0: 4/26 1: 26/4 2: APR/26	press '0', '1', or '2'; then, press the OK key.
DENS. IND	switches density indications (9/17)	selects indications by LED between 9 levels and 17 levels. 0: 9 levels 1: 17 levels	
OHP EDGE1 OHP EDGE2 OHP EDGE3 OHP EDGE4	prohibits No. 1 registration roller control; this is to ensure that the horizontal registration paper edge sensor detects OHP paper fed from the cassette.	disables horizontal control of the No. 1 registration at time of pick-up (user option). 0: enable 1: disable	may differ between cassette holders. 1: 1st cassette 2: 2nd cassette 3: 3rd cassette 4: 4th cassette
TRN_CHG	switches transfer output	switches the output of transfer current; use it when transfer faults occur in a high-temperature/humidity environment. 0: normal 1: up by 50μA	

Table 3-326B

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Item	use	Description	Remarks
WARM_UP	switches wait time (warm-up time)	switches the target fixing temperatures (e.g., to shorten the wait period; Japanese models only). 0: shorter wait time (160°C) 1: longer wait time (190°C)	Do not use the mode; fixing failure may accur when the machine is switched ON in the morning.
WEB	switches cleaning belt drive solenoid (SL2) drive frequency	0: normal value 1: twice normal value	The cleaning belt drive solenoid, as a rule, is driven depending on the length of paper: if 216 mm or less, once; if 216 mm or more, twice.
US1 US2 UL1 UL2	stores size of universal cassette	stores the size of the paper used in the universal cassette, thereby enabling the use of the auto reproduction ratio selection mechanism.	LENGTH: paper feed direction WIDTH: front/rear direction

Table 3-326C

Position of Cassette Tabs (1: present)

	left			right
US1	1	0	0	0
US2	1	0	0	1
UL1	1	0	1	0
UL2	0	0	1	0

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I. Counter Mode (✳6✳)

- Select the desired screen using the ▽ and △ keys.
- A press on the CLEAR/STOP key while holding down the service mode switch (Figure 3-300) clears the respective counter reading.

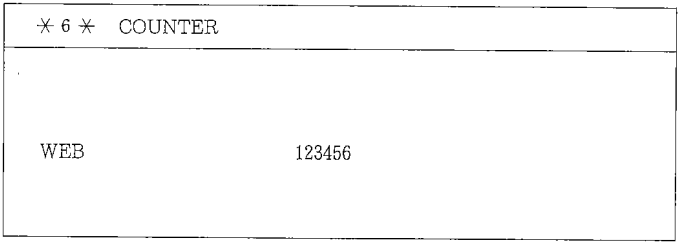

Figure 3-314 COUNTER Screen

Item	Display (max.)	Description
WEB	number of times cleaning belt drive solenoid has gone ON*	999999 (returns to 000000 thereafter)
MANUAL	number of manual feed pick-ups	
CST_1	number of pick-ups from cassette 1	
CST_2	number of pick-ups from cassette 2	
CST_3	number of pick-ups from cassette 3	
CST_4	number of pick-ups from cassette 4	
TWO_SIDE	number of pick-ups from lower feeder assembly (two-sided copy)	
OVERLAY	number of pick-ups from lower feeder assembly (overlay copy)	
DF	number of document pick-ups from RDF	

* At the 300,000th copy, indicates the 'BELT SHORT' message on the display.

Table 3-327

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J. Adjustment

1. Light Intensity/AE Adjustment

Table 3-328 shows those items that can be adjusted using the scanning lamp intensity control circuit.

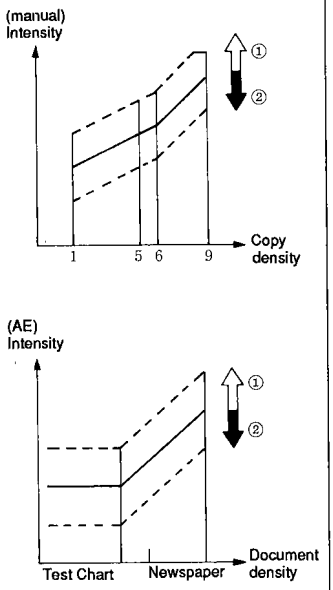
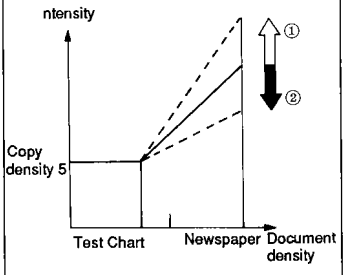
Item	Adjustment	Description	Remarks
✳3✳ LIGHT_BK	Optimum exposure; copy density 5		① If the setting is increased in the service mode, the scanning lamp intensity during copying operation will increase, thereby decreasing the copy density. ② If the setting is decreased in the service mode, the intensity during copying operation will decrease, thereby increasing the copy density.
✳3✳ AE_SLOP	AE slope		① If the setting is increased in the adjustment mode, copies of a newspaper will be lighter. ② If the setting is decreased in the adjustment mode, copies of a newspaper will be darker.
✳4✳ AE_ADJ	AE scan intensity	The setting determines the standard intensity for AE scans; see p.3-157.	

Table 3-328

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2. Adjusting the Development Bias

Table 3-329 shows those items that can be adjusted using the development bias control circuit; make sure that the setting in the user asterisk mode (✱ 5 ✱ ; copy density) is at the standard setting (center) before making this adjustment.

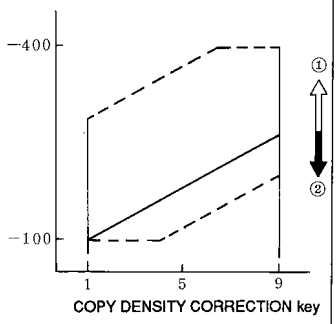
Item	Adjustment	Description	Remarks
✱3✱ BIAS_N	Development bias (DC component; black copy)	Development bias DC component 	① If the setting is increased in the service mode, the DC component of the black development bias during black copying operation will increase, thereby decreasing the copy density. ② If the setting is decreased in the service mode, the DC component of the development bias will decrease, thereby increasing the copy density.

Table 3-329

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3. Adjusting the AE Scan Intensity

If the scanning lamp, AE sensor, or DC controller has been replaced, make adjustments as follows:

1) Open the front door, and insert the door switch actuator into the door switch; set the Test Sheet (NA2 or NB3) on the copyboard, and close the copyboard cover.
   - After the WAIT period is over,
2) Press the service mode switch (SW501) using the hex key.
   - The machine enters the service mode and indicates '$' on its display.
3) Press the [*], [4], and then [*] keys in sequence.
   - The machine enters the function mode and indicates 'AE_ADJ' on its LCD display.
4) Press the OK key.
   - The machine indicates 'AE_ADJ: 1'. If '1' and '0' alternates, press the OK key to indicate '0'; then, make checks, and go over the foregoing steps.
   - The machine repeats AE scans and decides the intensity for AE scans automatically.
   - Upon completion, the machine indicates 'AE_ADJ: 0'.
5) Press the RESET key to leave the service mode.

Note:
During the adjustment, the copy density display (LEDs) on the control panel indicates the output of the AE sensor. The adjustment is over when the display indicates '6' or '7'.
If the AE slope (* 3 *) has been changed since shipment from the factory, the indication may not be '6' or '7'.

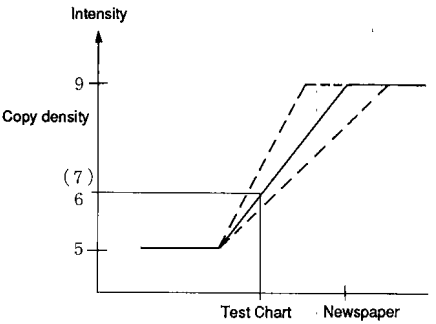

Figure 3-330

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4. Checking the Photointerrupters

The machine enables checks on its photointerrupters using its service mode in addition to conventional meter.

① Using a Meter

1) Set the meter to the 12VDC range.
2) Connect the — probe of the meter to J106-4 (GND) on the DC controller.
3) Make checks as indicated: 1, 5 V; 0, 0 V.

② Using the Service Mode

1) Open the front door, and insert the door switch actuator into the door switch.
2) Press the service switch.
3) Press the [*], [2], and then [*] keys.
4) Press the up key or the down key to enter the addresses shown, and check the respective photointerrupters.

Notation	Q2	Q3	Q4
Name	Delivery sensor ($\overline{PDP3}$)	Lower feeder inlet paper sensor ($\overline{PDP4}$)	Manual feed sensor ($\overline{MFPD}$)
+ probe	J110-A4	J111-B2	J109-A7
Service mode	PA0-5	PA0-6	PA0-0
Checks (normal if as described)	Open the delivery assembly while in standby. • when detection lever is blocking Q2, '1'. • otherwise, '0'.	Open the delivery assembly while in standby, and put copy paper in the lower feeder assembly. • when copy paper is present, '0'. • otherwise, '1'.	Move the detection lever up and down with a finger while in standby. • when lever is down, '0'. • when lever is up, '1'.
Notation	Q5	Q6	Q7
Name	No. 1 pre-registration paper sensor (PDP1)	Horizontal paper edge sensor (PDP2)	Lens home position sensor (LHP)
+ probe	J104-B5	J104-B2	J114-B13
Service mode	PA0-4	SPC-7	SPC-6
Checks (normal if as described)	• when Q5 detects copy paper (i.e., detection lever is at Q5), '1'. • otherwise, '0'.	Move the manual feed upper guide up, and put copy paper over Q6. • when copy paper is present, '1'. • otherwise, '0'.	Put copy paper over Q7. • when copy paper is present, '1'. • otherwise, '0'.

Table 3-330A

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Notation	Q8	Q9	Q10
Name	Scanner home position sensor (SCHP)	Scanner document leading edge sensor (SCDP)	Cassette 1 paper sensor (C1PD)
+ probe	J114-B5	J114-B2	J109-A1
Service mode	PA1-4	—	PA2-0
Checks (normal if as described)	Move the scanner while in standby. • when scanner is at home position, '1'. • otherwise, '0'.	Move the scanner while in standby. • when scanner is at document leading edge, '0' (5V). • otherwise, '1' (0V).	Move the detection lever up and down with a finger while in standby. • when lever is up, '1'. • when lever is down, '0'.
Notation	Q11	Q12	Q13
Name	Cassette 2 paper sensor (C2PD)	Cassette 1 lifter position sensor (C1LTP)	Cassette 2 lifter position sensor (C2LTP)
+ probe	J109-A2	J109-A3	J109-A4
Service mode	PA2-1	PA1-0	PA1-1
Checks (normal if as described)	Move the detection lever up and down with a finger while in standby. • when lever is up, '1'. • when lever is down, '0'.	Move the pick-up roller up and down with a finger while in standby. • when roller is up, '1'. • when roller is down, '0'.	Move the pick-up roller up and down with a finger while in standby. • when roller is up, '1'. • when roller is down, '0'.
Notation	Q14	Q15	Q16
Name	Lower feeder outlet paper sensor (PDP5)	No. 2 pre-registration paper sensor (PDP6)	No. 3 pre-registration paper sensor (PDP7)
+ probe	J109-A5	J109-A6	J109-A9
Service mode	PA0-7	PA0-3	PA0-1
Checks (normal if as described)	Move the detection lever up and down with a finger while in standby. • when lever is down, '0'. • when lever is up, '1'.	Open the upper right door while in standby, and move the detection lever up and down with a finger. • when lever is up, '1'. • when lever is down, '0'.	Open the upper right door while in standby, and move the detection lever up and down with a finger. • when lever is up, '1'. • when lever is down, '0'.

Table 3-330B

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Cassette Feeding Unit

Notation	Q850	Q851	Q852
Name	Cassette 3 paper sensor (C3PD)	Cassette 3 lifter position sensor (C3LTP)	Cassette 4 paper sensor (C4PD)
+ probe	J108-B6	J108-B7	J108-A9
Service mode	PA2-2	PA1-2	PA2-3
Checks (normal if as described)	Move the detection lever up and down with a finger while in standby. • when lever is up, '1'. • when lever is down, '0'.	Move the pick-up roller up and down with a finger while in standby. • when roller is up, '1'. • when roller is down, '0'.	Move the detection lever up and down while in standby. • when lever is up, '1'. • when lever is down, '0'.
Notation	Q853	Q854	
Name	Cassette 4 lifter position sensor (C4LTP)	No. 4 pre-registration paper sensor (PDP8)	
+ probe	J108-A10	J108-A7	
Service mode	PA1-3	PA0-2	
Checks (normal if as described)	Move the pick-up roller up and down with a finger while in standby. • when roller is up, '1'. • when roller is down, '0'.	Open the lower right door while in standby, and move the detection lever up and down with a finger. • when lever is up, '0'. • when lever is down, '1'.	

Table 3-331

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Paper Deck Pedestal

Notation	Q751	Q752	Q753
Name	Right deck paper sensor (RPADE)	Left deck paper sensor (LPADE)	Left feeder assembly paper sensor (LPPDE)
+ probe	J704-6	J708-4	J705-2
Service mode	PA2-2	PA2-3	PA0-2
Checks (normal if as described)	Move the detection lever up and down with a finger while in standby. • when lever is up, '1'. • when lever is down, '0'.	Move the detection lever up and down while in standby. • when lever is up, '1'. • when lever is down, '0'.	Open the left feeder assembly while in standby, and put copy paper. • when copy paper is present, '0'. • otherwise, '1'.
Notation	Q754	Q755	
Name	Right lifter sensor (PLPDE)	Left lifter sensor (LLPDE)	
+ probe	J704-3	J708-7	
Service mode	—	—	
Checks (normal if as described)	Move the pick-up roller up and down with a finger while in standby. • when roller is up, '1'. • when roller is down, '0'.	Move the pick-up roller up and down while in standby. • when roller is up, '1'. • when roller is down, '0'.	

Table 3-332

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5. Adjusting the RDF Document Stop Position

Go through the following steps to adjust the document stop position for the RDF.

1) Enter the copier's service mode; DOC_STOP (✱3✱).
2) Place an A4/LTR document in the document tray.
3) Enter a setting using the numeric keypad or ENALRGE/REDUCE key so that the document stop position is optimum.

Note:
A higher setting moves the document to the right (pick-up direction) between –7 and +7 in 0.33-mm increments.

4) Press the OK key on the control panel; the document will be picked up and sent to the copyboard glass.
5) Open the RDF, check the position of the document, and close the RDF.
6) Press the OK key; the document will be discharged to the document tray.
7) Repeat steps 3) through 6) until the document stop position is correct.
8) Press the RESET key to exit the service mode.

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VIII. SELF DIAGNOSIS

The machine is equipped with a self diagnostic mechanism that checks the condition of the machine (sensors in particular). The mechanism is initiated by the microprocessor on the DC controller PCB and, if an error is identified, displays a corresponding error code.

<Copier self diagnosis>

Code	Cause	Description
E000	• Thermistor (TH1; contact) • SSR (faulty) • DC controller (faulty)	The output of TH1 does not reach 50°C within 90 sec after the machine has been switched ON; see Notes i and ii.
E001	• Thermistor (TH1; short circuit) • SSR (faulty) • DC controller PCB (faulty)	The output of TH1 exceeds 223°C; see Notes i. and ii.
E002	• Thermistor (TH1; contact) • Heater (H1; open circuit) • Thermoswitch (TS1; activation) • SSR (faulty) • DC controller (faulty)	The output of TH1 does not reach 190°C within 6 min after it has reached 50°C; see Notes i. and ii.
E003		The output of TH1 drops below 40°C after wait-up; see Notes i and ii.
E004	• SSR (short circuit; error) • Heater (H1; open circuit) • Thermoswitch (TS1; activation)	• A short circuit is detected in SSR during the heater OFF period immediately after power-on. • A short circuit is detected in SSR during the heater OFF period at 200°C or more.
E010	• Main motor (M1; faulty) • Motor driver PCB (faulty) • DC controller PCB (faulty)	The PLL lock signal is not received for 0.5 sec after the main motor drive signal has been generated.
E020	• Hopper motor (M10; faulty) • Developing assembly toner sensor (Q17; faulty) • Hopper toner sensor (Q18; faulty) • DC controller PCB (faulty)	• The black toner supply signal ($\overline{\text{BTSP}}$) and the black toner out signal ($\overline{\text{BTEP}}$) remain '1' for 3 hr during copying operation (accumulative). • The black toner supply signal ($\overline{\text{BTSP}}$) remains '0' and the black toner out signal ($\overline{\text{BTEP}}$) remains '1' for about 20 sec during copying operation (accumulative).
E030	• Counter (CNT1; open circuit) • DC controller PCB (faulty)	Checks are made immediately before the counter goes ON and OFF: normal if '0' when ON; normal of '1' when OFF.

Table 3-333A

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Code	Cause	Description
keys on control panel locked (E202); see Note iii.	• Scanner home position sensor (Q8; faulty) • Scanner motor (M2; faulty) • Motor driver PCB (faulty) • DC controller PCB (faulty)	The scanner does not return to the home position within 5 sec after it has started to move.
E203	• Scanner motor (M2; faulty) • Scanner cable (faulty) • Motor driver PCB (faulty) • DC controller PCB (faulty)	The PLL lock signal is not received from the motor driver for 0.4 sec after the scanner motor drive signal has been generated.
keys on control panel locked (E204); see Note iii.	• Scanner document leading edge sensor (Q9; faulty) • Motor driver PCB (faulty) • DC controller PCB (faulty)	The scanner document leading edge signal is not generated within 0.5 sec after the scanner has started forward.
E210	• Lens home positions sensor (Q7; faulty) • Lens motor (M3; faulty) • Lens cable (faulty) • DC controller PCB (faulty)	• The lens home position signal (LHP) is not generated within a specific period of time after the machine has been switched ON. • The lens home position signal (LHP) remains ON more than a specific period of time.
E240	• DC controller PCB (faulty)	An error is found in communication between the main CPU (Q223) and the sub CPU (Q221).
E710	• DC controller PCB (faulty)	The IPC (Q104) cannot be initialized at power-on.
E711	• DC controller PCB (faulty)	Within 1 sec, 2 or more IPC communication errors have been detected.
E800	• Power-off circuit (relay drive circuit for SW1; faulty)	An open circuit is detected.

Table 3-333B

Note:

i. When an error has occurred, the machine may be reset by switching it OFF once and then ON; this, however, does not apply to E000, E0001, E002, E003, or E004.
To reset the machine, execute 'ERROR' in the service mode (✱4✱); this consideration is made to prevent the user from carelessly resetting the machine without realizing possible faults in the thermistor, causing the fixing rollers to overheat and become damaged.

ii. E000, E001, E002, E003, E004, and E020 are displayed upon detection of respective errors without delay; the machine is shut OFF.

iii. E202 and E204 can be checked in the service mode (✱1✱).

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<RDF>

Code	Cause	Description
E401	• Pick-up motor (faulty)	The shaft of the pick-up motor (m1) is equipped with a flag which blocks the pick-up roller sensor (S5); S5 does not go ON/OFF twice or nor within 1 sec.
E402	• Belt motor (faulty)	The number of belt clock pulses for 200 ms is below the specified value.
E403	• Feeder motor (faulty)	The number of belt clock pulses for 200 ms is below the specified value.
E411	• Document sensor faulty	The output of the sensor is 2.3V or more in the absence of paper.
E712	• DC controller PCB (faulty) • DF controller PCB (faulty) • DF cable (faulty)	The communication error with the RDF cannot be cleared.

Table 3-333C

Note
When the machine is switched OFF and then ON in response to an error in the 400's, self diagnosis will be executed once again, and the message 'FEEDER AT FAULT' will be indicated; copies may still be made if the feeder is not used.

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<Sorter/Stapler Sorter/Stapler Folder>

Code	Description	
	Stapler Sorter/Sorter	Stapler Folder
E500	A communication error has occurred in the communication with the copier.	A communication error has occurred in the communication with the copier.
E510	The clock signal from the feed motor is not received for 250 ms or more.	The clock signal is not received for 500 ms or more while the feeder motor drive signal is generated.
E512	—	The clock signal is not received for 500 ms or more while the feeder motor drive signal is generated.
E514	—	The clock signal is not received for 500 ms or more while the motor drive signal is generated.
E520	—	• The upper limit sensor (MS6) does not go ON after the motor drive signal has been generated. • The clock signal is not received for 500 ms or more while the motor drive signal is generated.
E530	The home position sensor (PI7) does not go OFF after the motor drive signal has been generated for 2560 pulses.	The stapler guide plate home position sensor (PI1) does not go OFF within 4 sec after the motor drive signal has been generate.
E531	• The stapler unti swing sensor (MS9) does not go ON within 500 ms after the motor drive signal has been generated. • The sensor does not go OFF within 1000 ms after it has gone ON.	• The stapling home position sensor (MS4) does not go OFF within 300 ms after the motor drive signal has been generated. • The sensor does not go ON within 800 ms after the reversal signals has been generated in response to a staple jam.
E535	—	• The swing unit home position sensor (PI7) does not go OFF within 300 ms after the motor drive signal has been generated. • The sensor does not go ON within 1 sec after it has gone OFF.

Table 3-333D

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Code	Description	
	Stapler Sorter/Sorter	Stapler Folder
E540	• The lead cam home position sensor (PI 2) does not go OFF within 2000 ms after the motor drive signal has been generated. • The sensor does not go ON within 2000 ms after it has gone OFF.	• The stack tray shift width sensor (MS8) does not go OFF within 500 ms after the motor drive signal has been generated. • The sensor does not go ON within 1 sec after it has gone ON.
E541	The lead cam HOME position sensor does not go "ON" with 1.0 second after the lead cam position sensor goes "OFF"	—

Table 3-333E

Note

When the machine is switched OFF and then ON in response to an error in the 500's except 'E500', self diagnosis will be executed once again, and the message 'SORTER AT FAULT' will be indicated; copies may still be made by detaching the sorter (sliding it to the left holding the grip.

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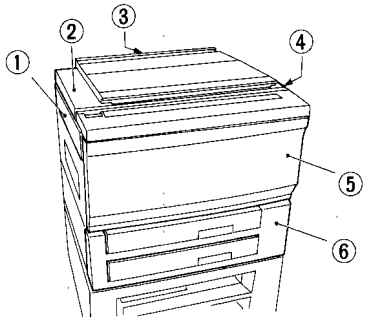
I. EXTERNAL

A. External Covers



① Left cover (7)
② Upper cover (3)
③ Rear cover (8)
④ Right cover (7)
⑤ Front door
⑥ Lower front cover (3)

Figure 4-100

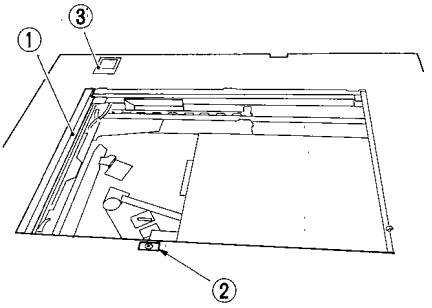
Note:
The number in parentheses indicates the number of mounting screws used.

Detach the covers as necessary for cleaning, inspecting, or repairing the inside of the machine.

Covers that can be detached by mere removal of the screws are left out of the procedure.

1. Upper Cover

1) Detach the copyboard cover.
2) Detach the control panel; see p. 4-3.
3) Detach the rear cover.
4) Remove the two mounting screws, and detach the copyboard glass retainer (right).
5) Detach the copyboard glass.
6) Detach the white plate.
7) Remove the mounting screw, and detach the magnet plate.
8) Pick the bush (left, right), and push it up to detach.

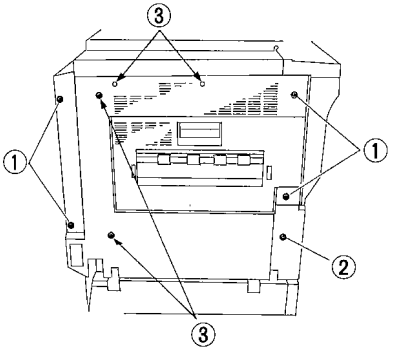


① White plate
② Magnet plate
③ Bush

Figure 4-101

2. Left Cover

1) Slide out the cassette from the copier.
2) Detach the copyboard.
3) Remove the nine screws shown in Figure 4-102.



① Screws (M4×8)
② Screws (M4×10)
③ Stepped screw(M4)

Figure 4-102

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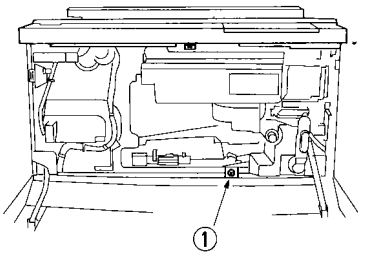
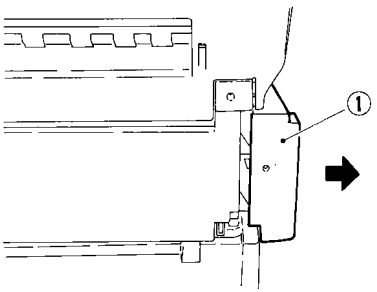
4) Open the front door, and remove the screw.



① Screw

Figure 4-103

5) Pull the lower front cover to the front.



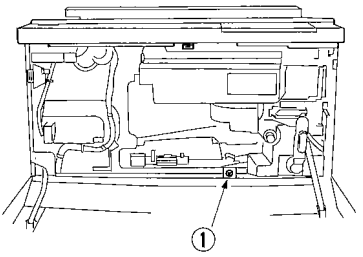
① Lower front cover

Figure 4-104

6) Open the front cover and the delivery assembly; then, detach the left cover.

3. Right Cover

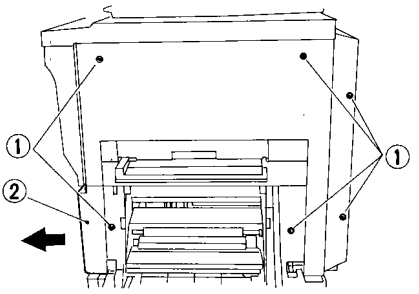
1) Slide out the cassette from the copier.
2) Remove the six screws shown in Figure 4-106
3) Open the front door, and remove the screw.



① Screw

Figure 4-105

4) Pull the lower front cover to the front; then, detach the right cover.



① Screws ② Lower front cover

Figure 4-106

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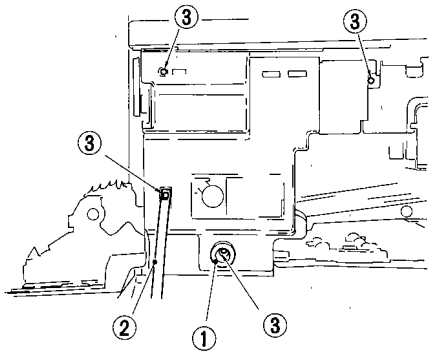
4. Detaching the Inside Left Cover

1) Open the front door and the delivery assembly.
2) Open the hopper.
3) Remove the screw, and detach the fixing assembly knob.
4) Remove the screw, and detach the door tape from the front door.
5) Remove the four screws, and detach the inside left cover.



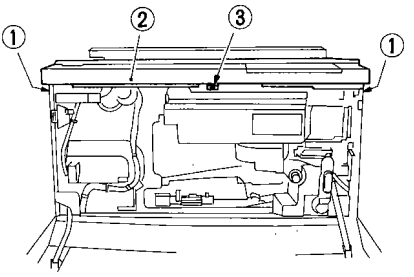
① Fixing assembly knob ③ Screws
② Door tape

Figure 4-107

B. Control Panel

1. Detaching the Control Panel

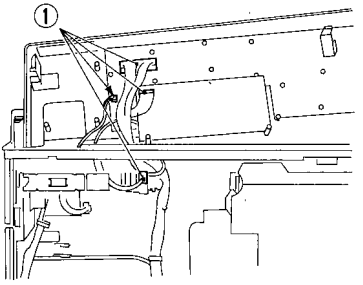
1) Open the front door.
2) Remove the four screws, and detach the inside left cover.
3) Remove the two screws; while disengaging the hook at the center, lift the control panel to the front to detach.



① Screws ③ Hook
② Control panel

Figure 4-108

4) Disconnect the four connectors, and detach the control panel.



① Connectors

Figure 4-109

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C. Copyboard Cover Assembly

1. Replacing the Copyboard Sheet

The copyboard sheet is attached to the copyboard retaining plate using adhesive tape (two-sided); pick its corner and simply peel it off.

After attaching the sheet, press the copyboard retaining plate against the copyboard gently.

D. Fans

1. Outline

The machine is equipped with four fan motors to prevent heating by circulating the air inside the machine.

Each of these fans serves the following function:

scanner cooling fan (FM1):	cools the scanner.
heat exhaust fan (FM2):	discharges heat from the fixing assembly.
feeder fan (FM3):	retains the copy paper on the feeder bed.
power supply cooling fan (FM4):	cools the DC power supply PCB.

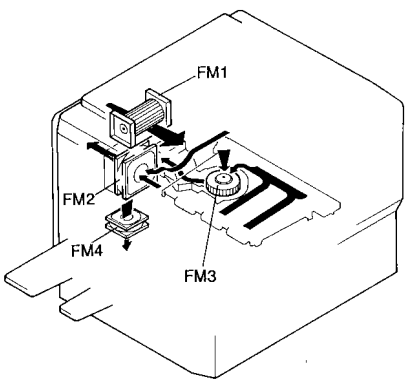
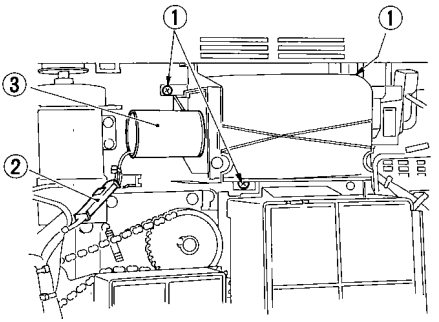


Figure 4-110

2. Detaching the Scanner Cooling Fan (FM1)

1) Detach the rear cover.
2) Remove the three screws, and disconnect the connector; then, detach the scanner cooling fan.

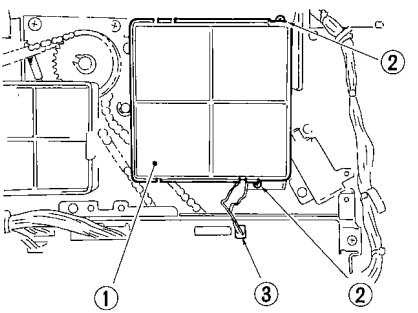


① Screws
② Connector
③ Scanner cooling fan

Figure 4-111

3. Detaching the Heat Exhaust Fan (FM2) Unit

1) Detach the rear cover.
2) Remove the two screws, and disconnect the connector (J120); then, detach the heat exhaust fan unit.



① Ozone filter
② Screws
③ Connector

Figure 4-112

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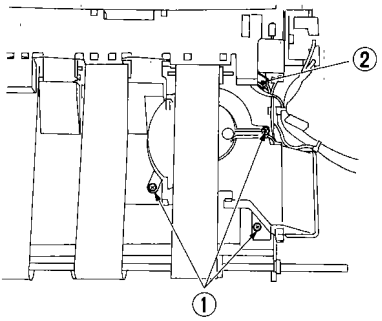
4. Detaching the Feeder Fan (FM3)

1) Detach the feeder assembly; see p. 4-21.
2) Turn over the feeder assembly.
3) Remove the three screws, and disconnect the connector; then, detach the feeder fan.

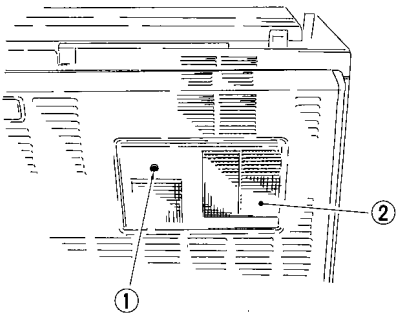


① Screws ② Connector

Figure 4-113

5. Detaching the Ozone Filter

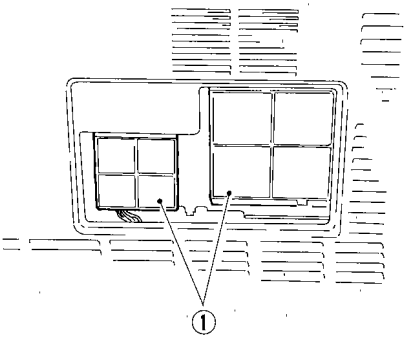
1) Remove the screw, and detach the blanking plate.



① Screw ② Blanking plate

Figure 4-114

2) Detach the ozone filter.



① Ozone filters

Figure 4-115

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II. DRIVE SYSTEM

A. Lens Drive Assembly

1. Outline

The lens drive assembly moves the zoom lens using the rotation of the lens motor (M3) and the lens drive cable.

2. Disassembly and Assembly

Note:
The lens unit is adjusted at the factory using special tools and with high precision. Do not detach parts that are not listed in the Parts Catalog.

a. Routing the Lens Drive Cable

1) Route the lens drive wire as shown in Figure 4-200; i.e., in the order given.

Note:
Wind the cable four times around pulley ③, then route the cable to pulley ④. Wind the cable on pulley ③ clockwise, so that the cable will be at the top of pulley ③.

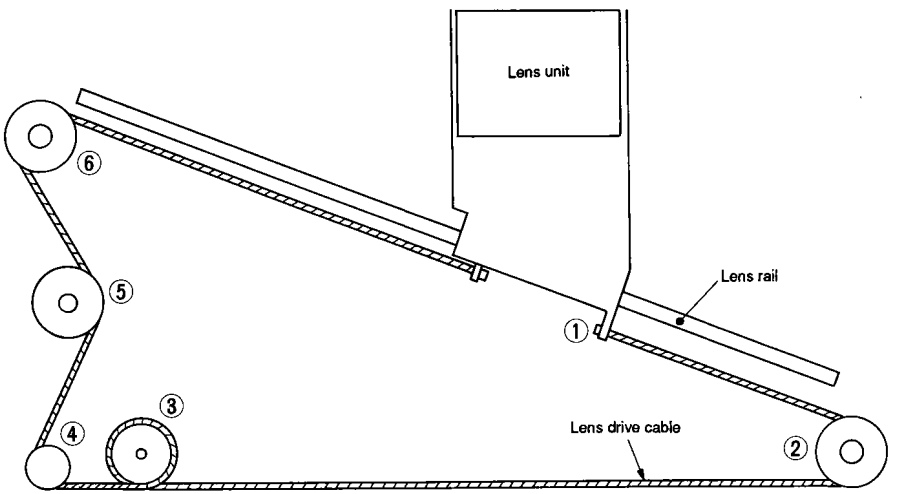

Figure 4-200

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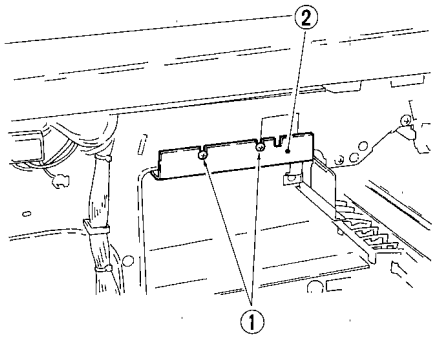
b. Detaching the Lens Motor

1) Open the front door and the delivery assembly.
2) Detach the drum unit.
3) Remove the screw, and detach the fixing assembly knob.
4) Detach the inside left cover and the inside center cover; see p.4-3.
5) Remove the two screws, and detach the document size sensor PCB cover.

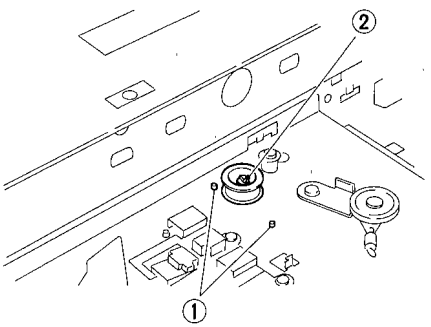


① Screws
② Document size sensor PCB cover

Figure 4-201

6) Detach the lens mount cover.
7) Detach the lens drive cable.
8) Remove the two screws shown in Figure 4-202 from below the lens mount.

Note:
Take care not to drop the screws and the lens motor.



① Screws ② Lens motor

Figure 4-202

9) Disconnect J53 (5-pin), and detach the lens motor.

3. Lubrication

Apply lubricant (CK-0451) evenly along the lens rail.

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B. Scanner Drive Assembly

1. Routing the Scanner Cable

1) Loosen the two fixing screws shown in Figure 4-203.
2) Turn the adjusting screw to move the pulley ⑥ to the right.
3) Move the No. 1 mirror mount and the No. 2 mirror mount all the way to the front.
4) Route the cable as shown in Figure 4-203; i.e., in the order given.
   - at ②, at the top of the pulley.
   - at ⑤, from bottom to top clockwise; four times.
   - at ③, ④, and ⑦, at the bottom of the pulley.
5) Adjust the tension of the cable.
6) Adjust the position of the mirror.

2. Adjusting the Tension of the Mirror Drive Cable

To adjust the tension of the scanner cable, loosen the fixing screw and turn the adjusting screw to adjust the position of the pulley ⑥.

Move the No. 1 mirror mount toward the home position, and measure the tension between ① and ② of the mirror drive cable shown in Figure 4-203 using a spring gauge; make adjustments so that the reading of the spring gauge is 300 to 400 g when the cable is pulled to the front 10 mm.

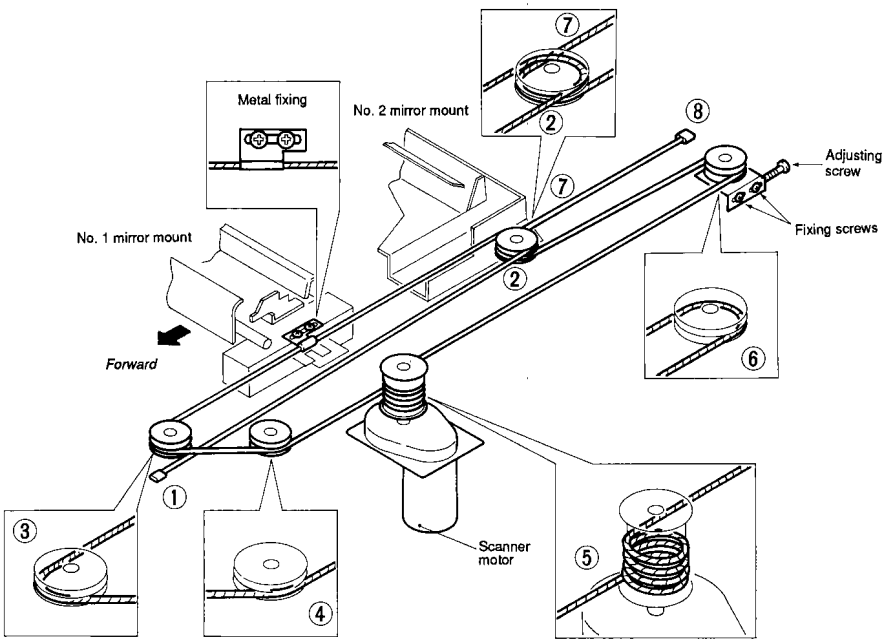

Figure 4-203

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3. Adjusting the Position of the Mirrors (optical length between No. 1 and No. 2 mirrors)

Adjust the position of the mirror after routing the mirror drive cable.

To adjust the position, reposition the metal fixing of the No. 1 mirror mount.

Note:
The cable tends to stretch as copies are made, requiring adjustment.

1) Draw lines 1 cm from both sides of a sheet of copy paper (A4 or A3).

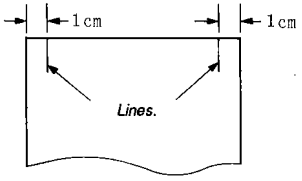

Figure 4-204

2) Place the sheet on the copyboard, and make a copy; call the copy *sheet* A.
3) Place a blank sheet of paper on the copyboard, and feed the original sheet in the manual mode; call the sheet *sheet* B.

■ When the original sheet has gone through the machine, it is contracted by heat.

4) Put sheet A and sheet B together, and reposition the No. 1 mirror mount so that distances x and y (Figure 4-205) will be identical.

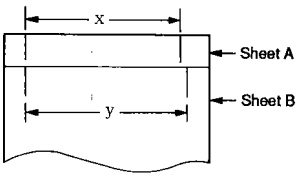

Figure 4-205

x=y: correct
x>y: move the No. 1 mirror mount in the direction of a.
x<y: move the No. 1 mirror mount in the direction of b.

If the distance between the No. 1 mirror and the No. 2 mirror is short, the copy image will be enlarged; if long, reduced.

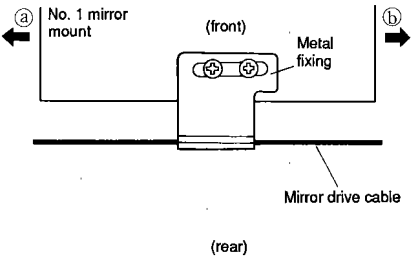

Figure 4-206 (top view)

4. Lubrication

Clean the scanner rail, and apply lubricant (CK-0451)evenly along it.

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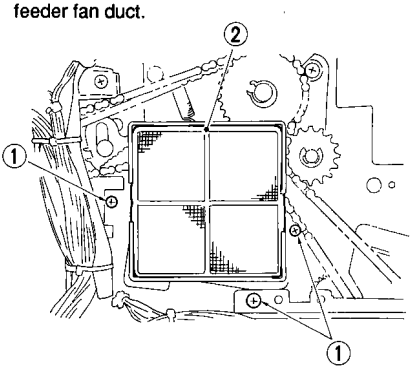
C. Main Motor Assembly

1. Detaching the main motor assembly.

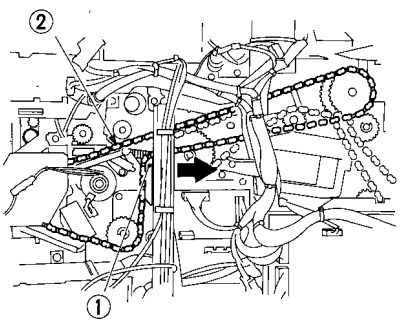
1) Remove the eight screws, and detach the rear cover.
2) Remove the two screws, and disconnect the connector; then, detach the heat exhaust fan unit.
3) Remove the three screws, and detach the feeder fan duct.



① Screws ② Duct

Figure 4-207

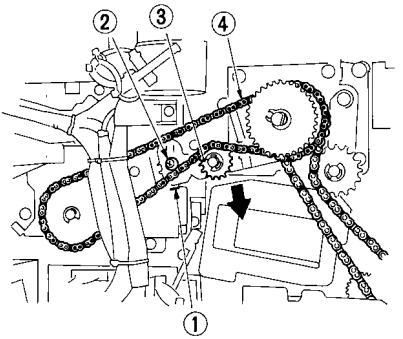
4) Push sprocket A in the direction of the arrow, and detach the pick-up chain from the sprocket of the main motor assembly.



① Sprocket A ② Pick-up chain

Figure 4-208

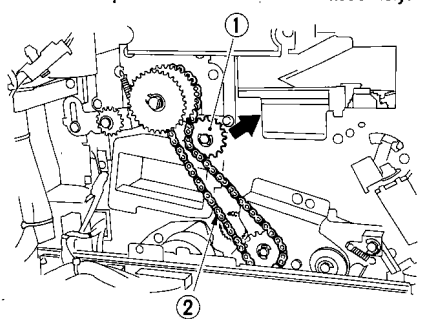
5) Mark the position of the sprocket support plate using a scriber, and remove screw B.
6) Push sprocket B into the direction of the arrow, and detach the drive chain from the sprocket of the main motor assembly.



① Mark ③ Sprocket B
② Screw B ④ Drum drive chain

Figure 4-209

7) Push sprocket C into the direction of the arrow, and detach the fixing assembly drive chain from the sprocket of the main motor assembly.



① Sprocket C ② Fixing assembly drive chain

Figure 4-210

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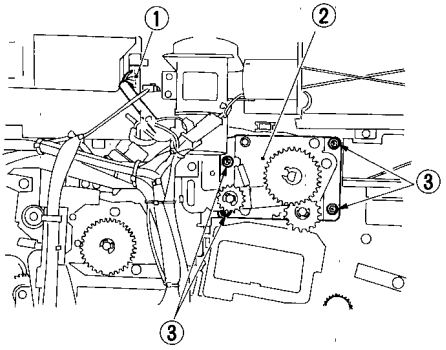
8) Disconnect the connector, and remove four screws; then, detach the main motor assembly.



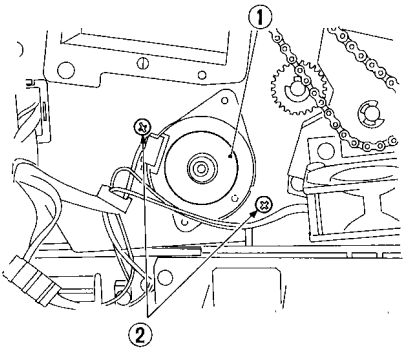
① Connector (J814) ③ Screws
② Main motor assembly

Figure 4-211

D. Lower Feeder Drive Assembly

1. Detaching the Lower Feeder Drive Assembly

1) Detach the rear cover.
2) Disconnect the connectors, and remove the two screws; then, detach the DC controller together with its mount.
3) Remove the two screws, and detach the lower feeder drive assembly.



① Lower feeder drive assembly
② Screws

Figure 4-212

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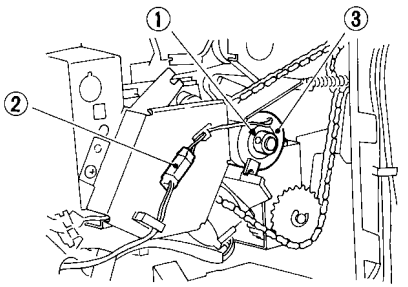
E. No. 1 Registration Roller Drive Assembly

1. Detaching the No. 1 Registration Roller Clutch, Registration Drive Assembly, and Horizontal Registration Drive Assembly

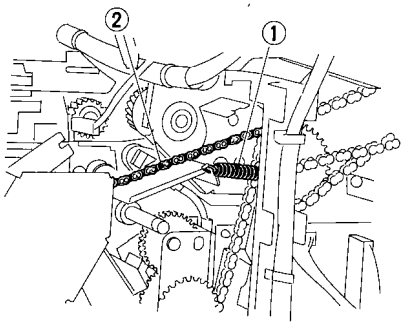
1) Detach the rear cover.
2) Loosen the set screw, and disconnect J30 (2-pin); then, detach the No. 1 registration roller clutch (CL1).



① Set screw
② Connector
③ No. 1 registration roller clutch

Figure 4-213

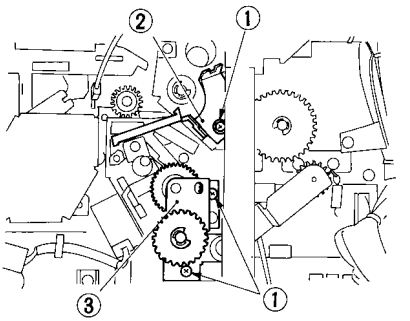
3) Detach the spring, and detach the chain from the sprocket.



① Spring
② Chain

Figure 4-214

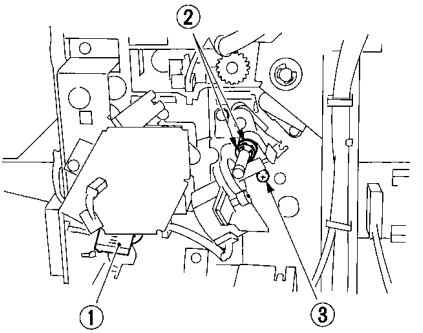
4) Remove the screw, and detach the chain guide.
5) Remove the two screws, and detach the registration drive assembly.



① Screws
② Chain guide
③ Registration drive assembly

Figure 4-215

6) Disconnect J51 (6-pin), and remove the two E-rings and screw; then, detach the horizontal registration drive assembly.



① Connector (J51)
② E-rings
③ Screw

Figure 4-216

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Note:
Insert section A (Figure 4-217) of the horizontal drive assembly into the rear of the bushing, and screw it in place.

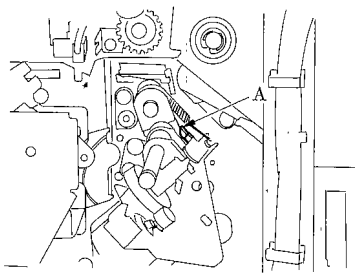
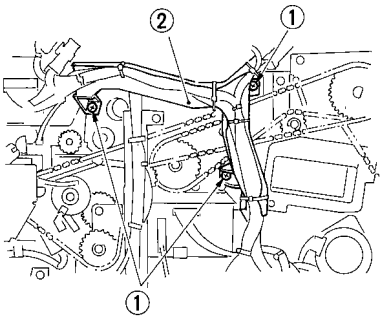


Figure 4-217

2. Detaching the Drum Drive Unit

1) Open the front door.
2) Detach the drum unit; see p. 4-36.
3) Detach the drum separation claw unit.
4) Detach the rear cover and the right cover.
5) Detach the blank exposure lamp; see p. 4-33.
6) Detach the heat exhaust fan (FM2) and the feeder fan duct; see p. 4-4.
7) Detach the DC controller together with its mount.
8) Remove the three screws, and detach the connector assembly for the RDF.
9) Disconnect the two connectors (J812, J811) on the motor driver PCB and the following five connectors.
   - for the RDF (2 connectors; 4-pin)
   - for the primary corona cleaning motor (1 connector; 6-pin)
   - for the pre-exposure lamp (1 connector; 2-pin)
   - for the scanner cooling fan (1 connector; 2-pin)

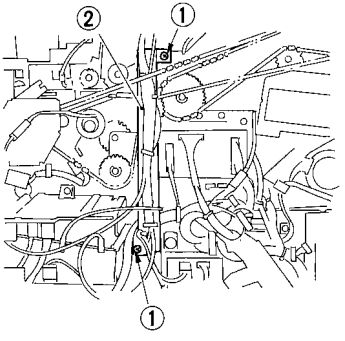
10) Remove the three screws, and detach the cable guide (white).



① Screws ② Cable guide

Figure 4-218

11) Remove the two screws, and detach the cable guide (black).



① Screws ② Cable guide

Figure 4-219

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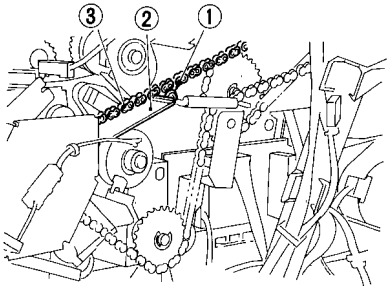
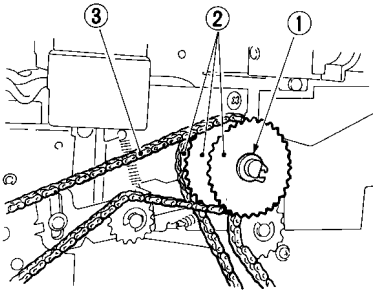
12) Detach the pick-up drive chain and the chain guide.



① Screw
② Chain guide
③ Pick-up drive chain

Figure 4-220

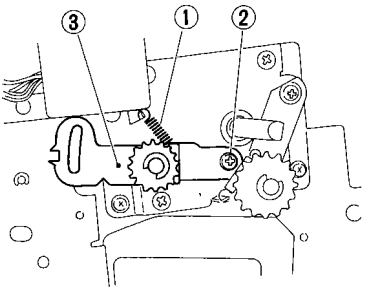
13) Remove the grip ring, and detach the three main motor gears and the chain.



① Grip ring
② Gears
③ Chain

Figure 4-221

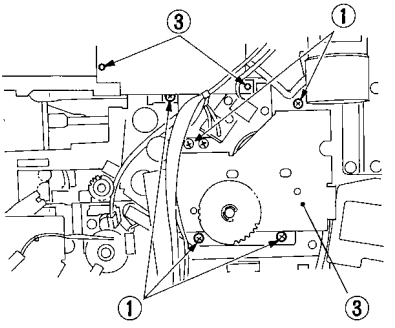
14) Remove the spring and the stepped screw, and detach the tension plate of the drum drive chain.



① Spring
② Stepped screw
③ Tension plate

Figure 4-222

15) Remove the two PCB supports from below the motor driver PCB.
16) Remove the five screws, and detach the drum drive unit.



① Screws
② Drum drive unit
③ PCB support

Figure 4-223

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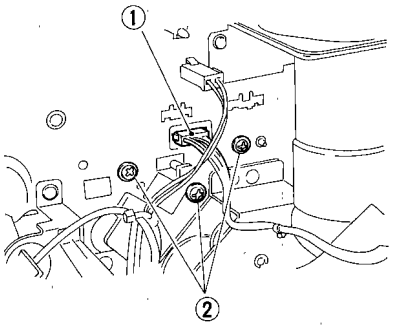
F. Primary Corona Wire Cleaning Motor

1. Detaching the Primary Corona Wire Cleaning Motor Unit

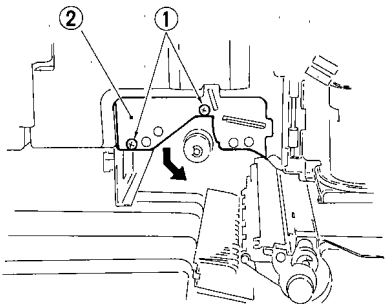
1) Open the front door, and detach the developing assembly; see p. 4-46.
2) Detach the pre-transfer corona assembly.
3) Detach the drum unit.
4) Detach the drum separation claw unit.
5) Detach the rear cover.
6) Detach the motor driver PCB.
7) Detach the pre-exposure lamp assembly; see p. 4-33.
8) Disconnect the connector and remove the three screws from the primary corona wire cleaning motor assembly.



① Connector ② Screws

Figure 4-224

9) Remove the two screws, and detach the primary corona wire cleaning motor assembly by lowering it to the front.



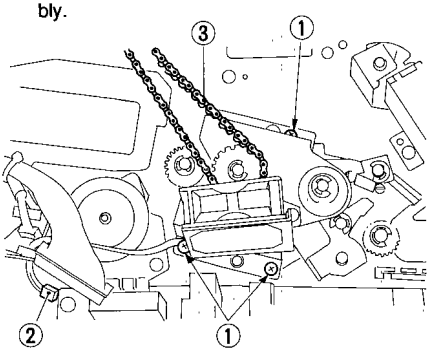
① Screws
② Primary corona wire cleaning motor assembly

Figure 4-225

G. Fixing Drive Assembly

1. Detaching the Fixing Drive Assembly

1) Detach the fixing assembly.
2) Detach the rear cover.
3) Remove the two screws, and disconnect the connectors; then, detach the DC controller together with its mount.
4) Detach the fixing drive chain.
5) Remove the three screws, and disconnect the connector; then, detach the fixing drive assembly.



① Screws ③ Fixing drive chain
② Connector

Figure 4-226

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III. FEEDER SYSTEM

A. Pick-Up Assembly (1st and 2nd)

1. Construction

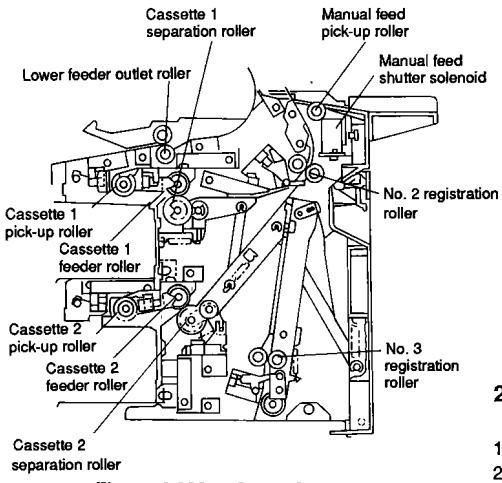
Cassette 1 separation roller
Manual feed pick-up roller
Manual feed shutter solenoid
Lower feeder outlet roller
No. 2 registration roller
Cassette 1 pick-up roller
Cassette 1 feeder roller
Cassette 2 pick-up roller
Cassette 2 feeder roller
No. 3 registration roller
Cassette 2 separation roller

Figure 4-300 Cross Section

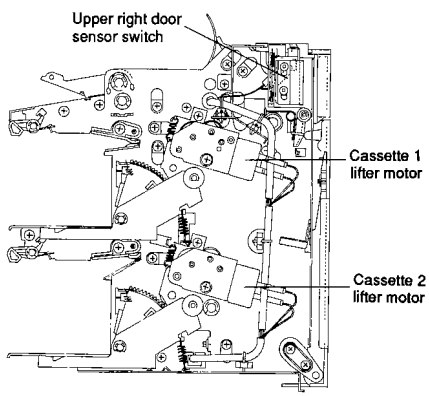

Figure 4-301 Front View

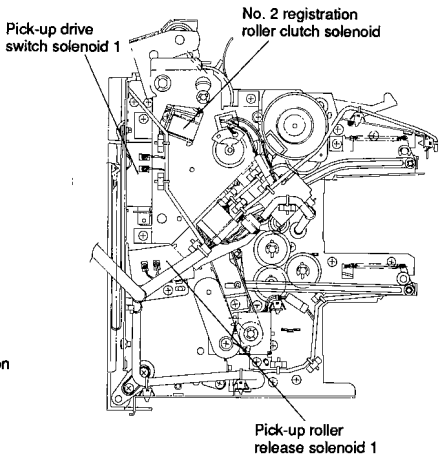

Figure 4-302 Rear View

2. Detaching the 1st/2nd Pick-Up Assembly

1) Detach the drum unit.
2) Detach the right cover.
3) Slide out the 1st and 2nd cassettes.

Note:
Do not try to detach the pick-up assemblies with the cassettes inside the machine; otherwise, the lifters will become trapped, preventing detachment of the cassettes and the pick-up assemblies.

4) Remove the two screws, and detach the front lower cover.
5) Remove the four screws, and detach the rear cover.
6) Disconnect J109 form the DC controller PCB.

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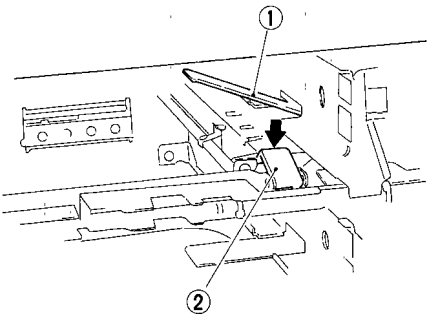
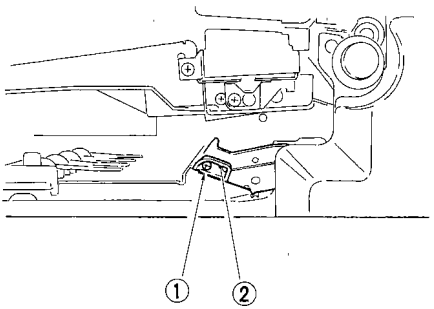
7) Shift the lifter release arm into the direction of the arrow, and move the lifter down.



① Lifter ② Lifter release arm

Figure 4-303

8) Open the front door, and remove the screw; then, detach the lower feeder outlet grip assembly.

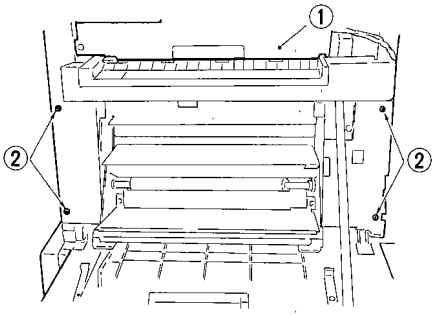


① Grip ② Screw

Figure 4-304

9) Open the upper right door, and remove the four screws.

10) Keep the manual feed tray cover up, and slide the pick-up assembly to the front to detach.

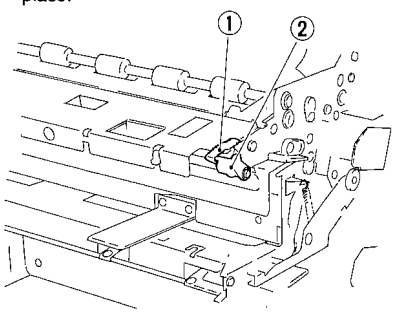


① Manual feed tray cover ② Screws (4 pcs.)

Figure 4-305

3. Detaching the 1st and 2nd Pick-Up Rollers

1) Detach the pick-up assembly from the machine.
2) Lift the pick-up roller release arm, and tape it in place.



① Tape ② Pick-up roller release arm

Figure 4-306

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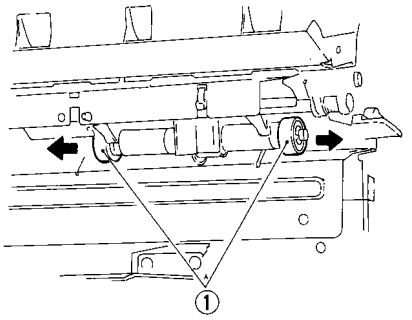
3) Pull out the pick-up rollers in the direction of the arrow.



① Pick-up rollers

Figure 4-307

Note:
The pick-up roller has its own orientation; attach it as shown in Figure 4-308.

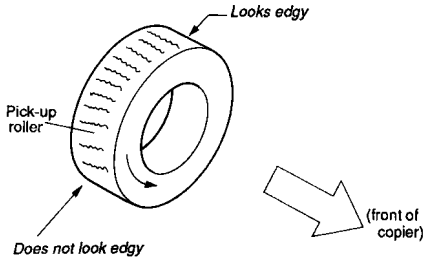
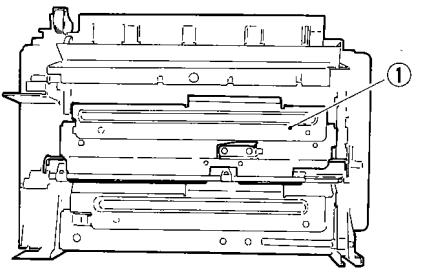


Figure 4-308

4. Detaching the 1st and 2nd Separation/Feeder Rollers

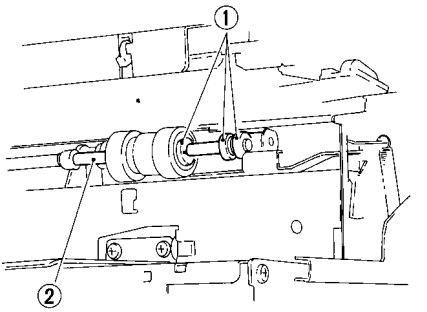
1) Detach the pick-up assembly from the machine.
2) Remove the screw, and detach the pick-up guide plate.



① Pick-up guide plate

Figure 4-309

3) Remove the three stop rings using a finger or calipers, and detach the separation roller shaft and the separation roller.



① Stop rings ② Separation roller shaft

Figure 4-310

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Note:
The separation roller has its own orientation, i.e., direction of rotation. Attach the separation roller shaft to the pick-up assembly so that the arrow shown in Figure 4-311 points to the rear of the machine.

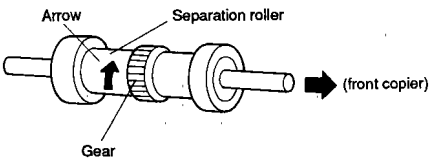
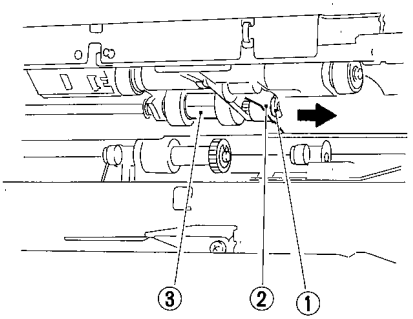


Figure 4-311

4) Remove the stop ring, and detach the feeder roller while pushing the arm into the direction of the arrow.



① Stop ring
② Arm
③ Feeder roller

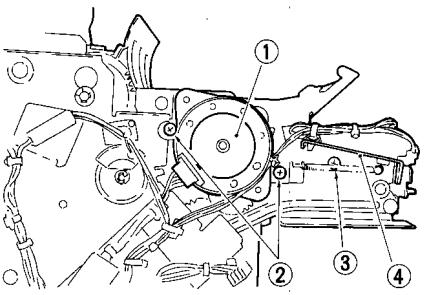
Figure 4-312

5. Detaching the Feeder Outlet Roller

1) Detach the pick-up assembly from the machine.
2) Remove the two screws; and detach the lower feeder outlet motor, the gear, and the pin.

Note:
Take care not to drop the gear and the pin at the back.

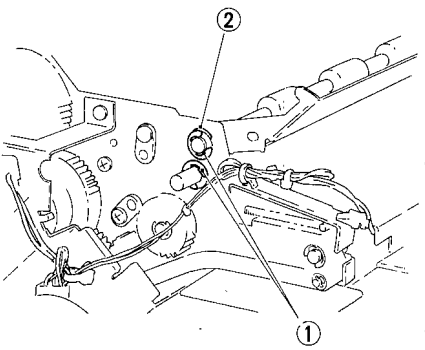
3) Remove the screw that holds the lower feeder outlet guide plate (lower) in place.



① Lower feeder outlet motor
② Screws (2 pcs.)
③ Screw (1 pc.)
④ Lower feeder outlet guide plate (lower)

Figure 4-313

4) Remove the two E-rings.
5) Remove the spring.



① E-rings (2 pcs.)
② Spring

Figure 4-314

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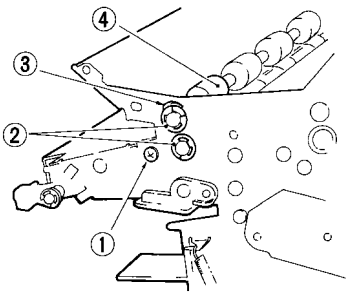
Note:
When attaching the spring, make sure its hook is on the inside of the pick-up assembly.

6) Remove the screw that holds the lower feeder outlet guide plate (lower) in place.
7) Remove the two E-rings and the spring, and detach the lower feeder outlet rollers (upper, lower).



① Screw (1 pc.)
② E-rings (2 pcs.)
③ Spring
④ Lower feeder outlet roller (upper)

Figure 4-315

Note:
When attaching the spring, make sure its hook is on the inside of the pick-up assembly.

6. Attaching the Manual Feed Shutter Assembly

① Make sure that the front end of the manual shutter sticks out from the rib face by 3 mm.
② Make sure that the front end of the manual shutter is below the reference face of the manual feed guide by 1 mm when the manual feed shutter solenoid is OFF.

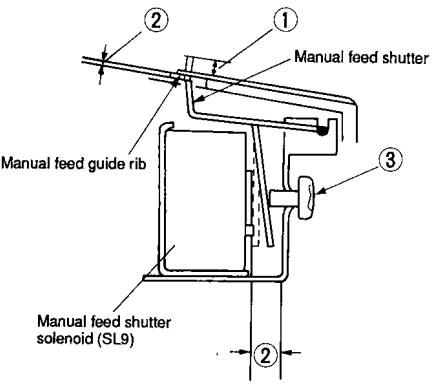


Figure 4-316

③ Adjusting screw*

* Access through the hole shown in Figure 4-317.

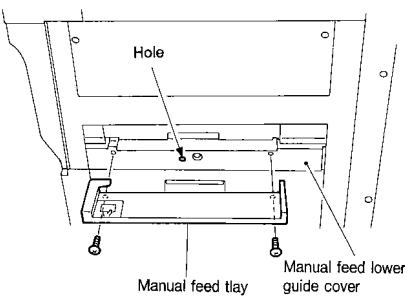


Figure 4-317

Note:
The manual feed lower guide cover is adjusted at the factory for horizontal registration; try not to detach it.

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7. Attaching Pick-Up Drive Switch Solenoid 1 (SL6)

Make sure that the stroke (a) of pick-up drive switch solenoid 1 (SL6) is 0.2 mm or less when the stop plate and the outside of the bushing are in contact with each other with section A held up; see Figure 4-318.

8. Attaching Pick-Up Roller Release Solenoid 1 (SL7)

Make sure that the stroke (b) of pick-up roller release solenoid 1 (SL7) is 0.2 mm or less when the 1st pick-up roller or the 2nd pick-up roller is released; see Figure 4-318.

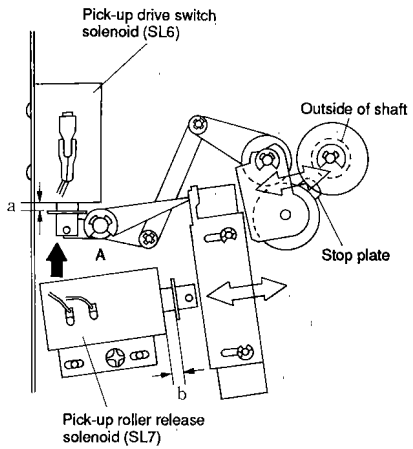
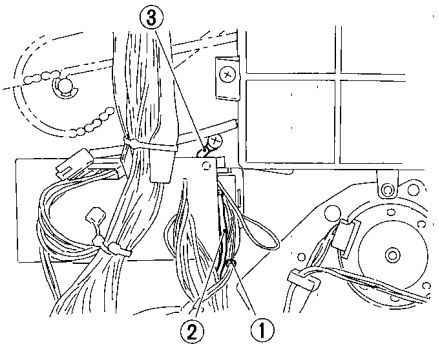


Figure 4-318

B. Feeder Assembly

1. Detaching the Feeder Assembly

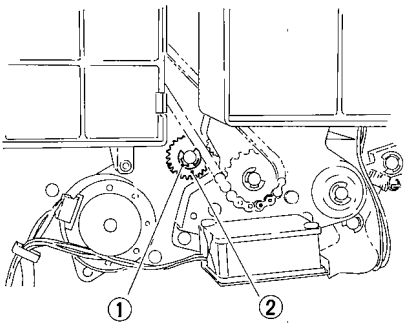
1) Detach the rear cover.
2) Detach the DC controller together with its mount.
3) Disconnect the transfer high-voltage connector (T) and the separation high-voltage connector (S).
4) Detach the grounding cord.
5) Push the transfer/separation high-voltage cord, the grounding cord, and the feeder fan cord into the inside of the machine.



① Feeder fan cord ③ Grounding cord
② High-voltage cable

Figure 4-319

6) Remove the E-ring, and detach the gear (w/ pin).



① E-ring ② Gear

Figure 4-320

Note:
Take care not to lose the pin.

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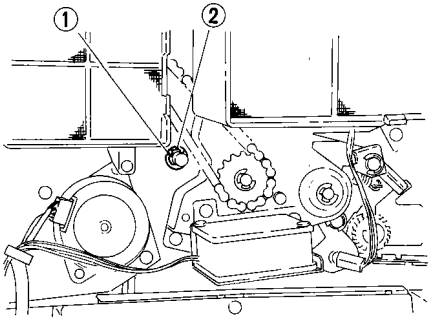
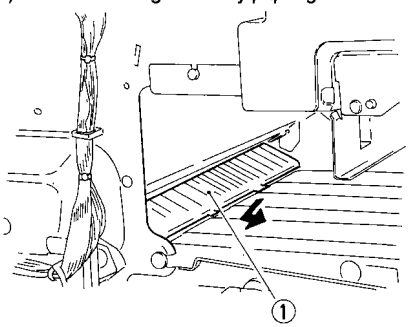
7) Remove the E-ring, and pull out the bushing.



① E-ring ② Bushing

Figure 4-321

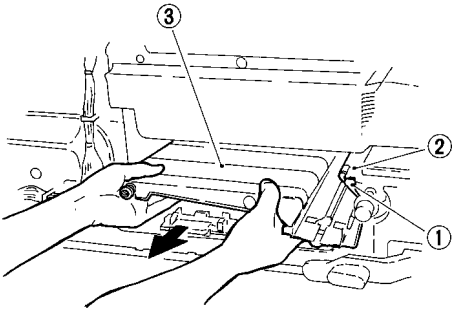
8) Open the front door, and detach the pre-transfer corona assembly.
9) Disengage the developing assembly.
10) Detach the drum unit and the transfer/separation corona assembly.
11) Detach the fixing assembly paper guide.



① Fixing assembly paper guide

Figure 4-322

12) Tape the lower transfer guide assembly to the upper transfer guide assembly.
13) Lift the front of the feeder assembly, and slide it out to the front.

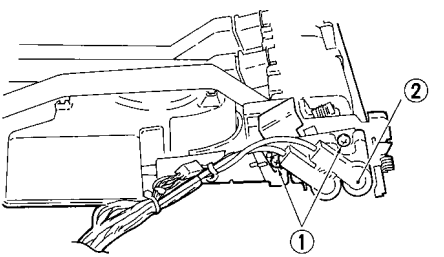


① Lower transfer guide assembly
② Upper transfer guide assembly
③ Feeder assembly

Figure 4-323

2. Detaching the Feeder Belt

1) Detach the feeder assembly.
2) Remove the screw, and detach the transfer/separation electrode.



① Screws ② Transfer/Separation electrode

Figure 4-324

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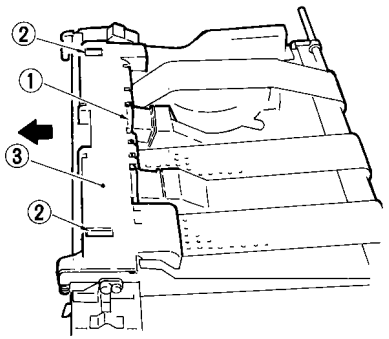
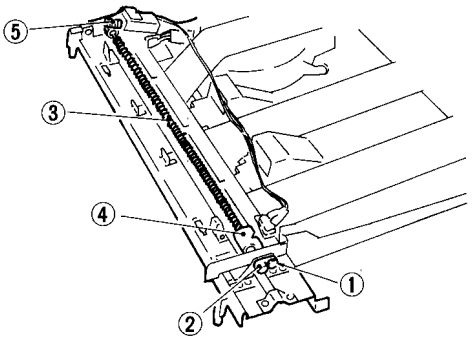
3) Detach the harness of the transfer/separation cleaner home position sensor (MS5) from the guide.
4) Disengage the two hooks, and pull out the duct in the direction of the arrow.



① Harness
② Hooks
③ Duct

Figure 4-325

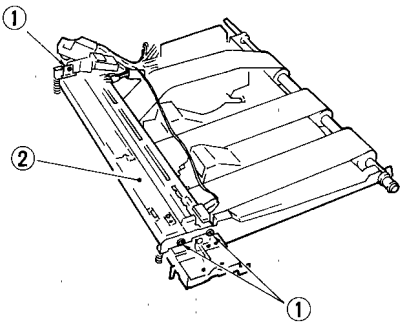
5) Remove the screw, and detach the bushing of the feedscrew.
6) Move the feedscrew to the front, and detach it from the motor gear.
7) Turn the feedscrew clockwise, and detach it from the cleaner.



① Screw
② Bushing
③ Feedscrew
④ Cleaner
⑤ Motor gear

Figure 4-326

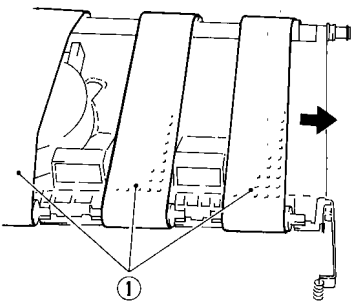
8) Remove the three screws, and detach the corona assembly rail.



① Screws
② Corona assembly rail mount

Figure 4-327

9) Detach the feeder belts.



① Feeder belts

Figure 4-328

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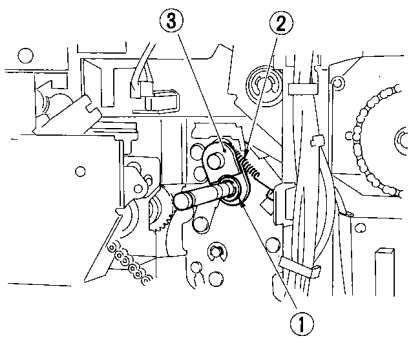
3. Detaching the Registration Roller

1) Open the front door, and detach the developing assembly; see p. 4-46.
2) Detach the pre-transfer corona assembly.
3) Detach the drum unit.
4) Detach the rear cover and the right cover.
5) Detach the pick-up assembly; see p. 4-16.
6) Detach the No. 1 registration roller drive assembly; see p. 4-12.
7) Remove the E-ring and the spring at the rear.
8) Detach the felt cover.

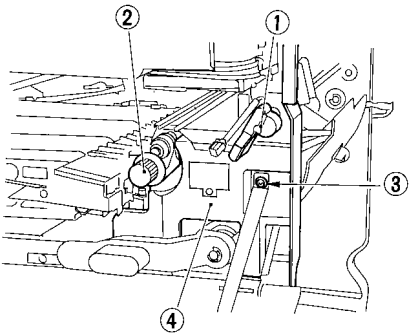
Note:
Detachment of the felt cover detaches the bushing of the registration roller (lower).



① E-ring
② Spring
③ Cover

Figure 4-329

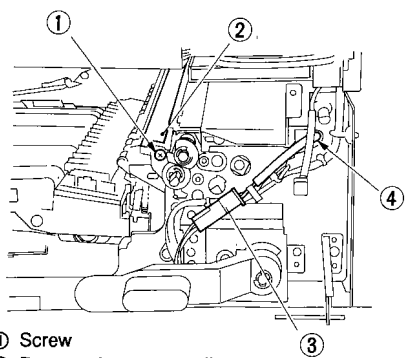
9) Detach the lock lever and the registration roller knob of the developing assembly.
10) Remove the screw, and detach the inside lower right cover.



① Lock lever
② Registration roller knob
③ Screw
④ Inside lower right cover

Figure 4-330

11) Remove the screw, and detach the pre-transfer corona assembly rail.
12) Remove the connector, and push it into the hole.



① Screw
② Pre-transfer corona rail
③ Connector
④ Hole

Figure 4-331

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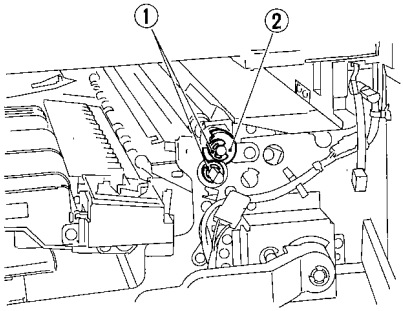
13) Remove the two E-rings, and detach the gear cover.



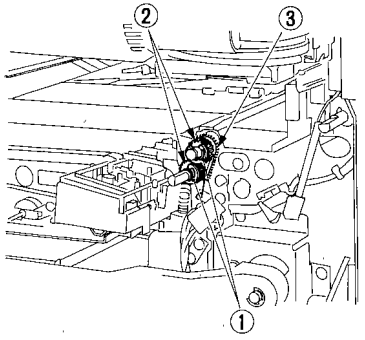
① E-rings ② Gear cover

Figure 4-332

14) Remove the two E-rings, and detach the two gears (w/ pin).

Note:
Keep the gear and the pin together.

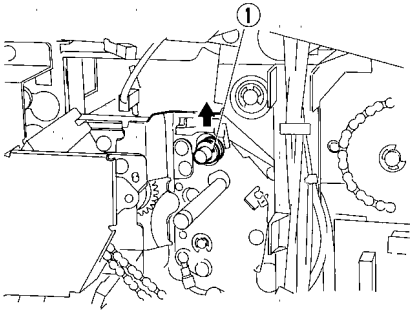
15) Detach the spring.



① E-rings ③ Spring
② Gears

Figure 4-333

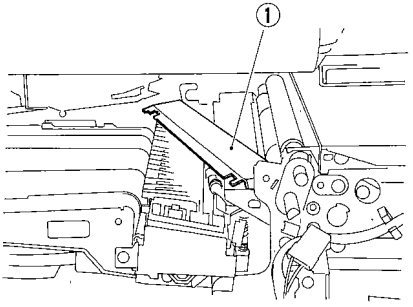
16) Lift the registration roller (upper) at the rear, and detach the bushing.



① Bushing

Figure 4-334

17) Detach the upper transfer guide assembly from the bushing.



① Upper transfer guide assembly

Figure 4-335

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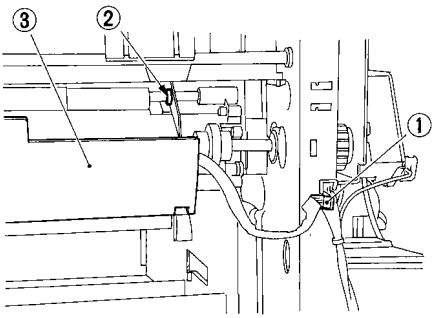
18) Remove the connector from the manual guide assembly.
19) Move the bushing to the right, and detach the manual guide assembly.

Note:
Take care not to butt the horizontal paper edge sensor (Q6) attached to the manual guide assembly against the paper guide plate.

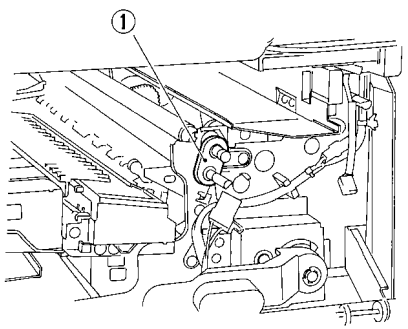


① Connector ③ Manual guide assembly
② Bushing

Figure 4-336

20) Detach the felt cover at the front.

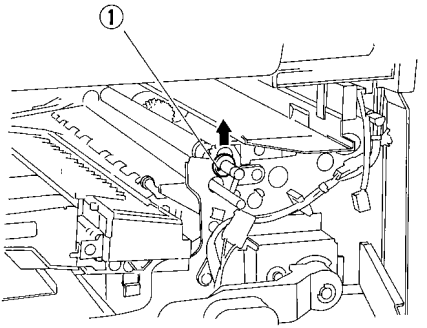
Note:
Detachment of the felt cover detaches the bushing of the registration roller (lower).



① Felt cover

Figure 4-337

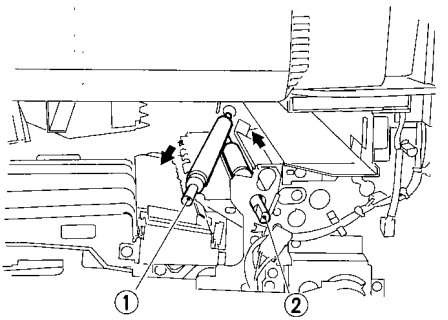
21) Lift the registration roller (upper), and detach the bushing.



① Bushing

Figure 4-338

22) Move the registration roller to the rear, and move it to the front to detach.



① Registration roller (upper)
② Registration roller (lower)

Figure 4-339

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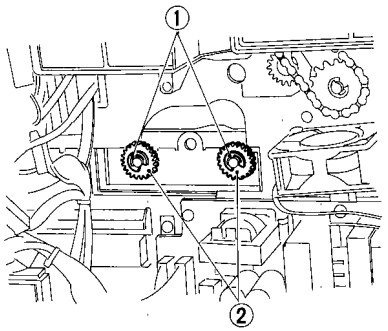
C. Lower Feeder Assembly

1. Detaching Set-Back Rollers 1 and 2

1) Detach the rear cover.
2) Detach the DC controller together with its mount.
3) Detach the lower feeder drive assembly.
4) Remove the E-rings, and pull out the gear (w/ pins).

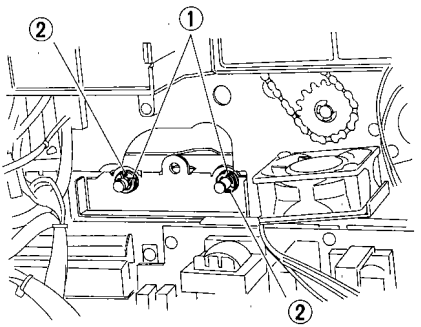
Note:
Keep the gear and the pin together.



① E-rings ② Gears (w/pin)

Figure 4-340

5) Remove the E-rings, and pull out the bushings.

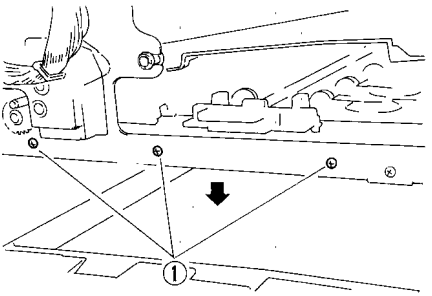


① E-rings ② Bushings

Figure 4-341

6) Open the front door and the delivery assembly.
7) Detach the inside left cover.
8) Detach the front door.
9) Slide out the 1st and 2nd cassettes.
10) Detach the lower front cover.

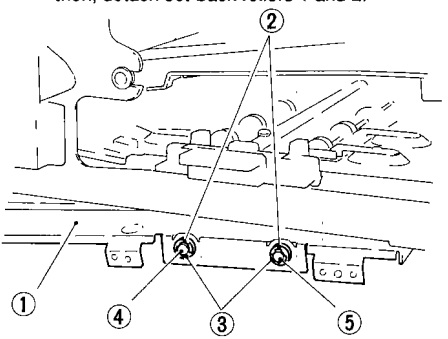
11) Remove the three screws, and push down the lower feeder assembly into the direction of the arrow.



① Screws

Figure 4-342

12) Remove the E-rings and detach the bushings; then, detach set-back rollers 1 and 2.



① Lower feeder assembly
② E-rings
③ Bushings
④ Set-back roller 1
⑤ Set-back roller 2

Figure 4-343

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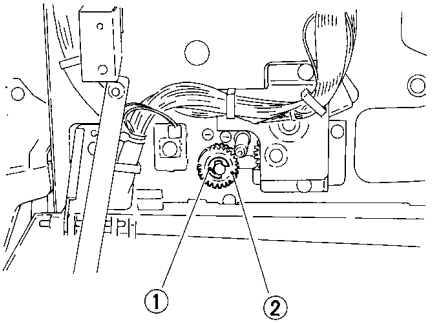
2. Detaching the Lower Feeder Inlet Roller

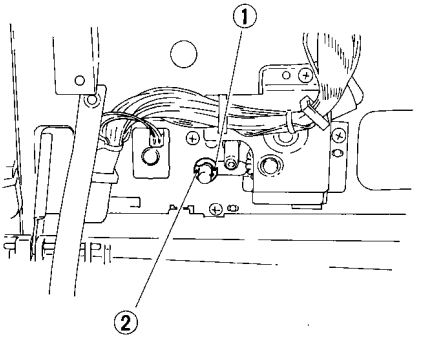
1) Open the front door.
2) Detach the inside left cover.
3) Remove the E-ring, and pull out the gear.



① E-ring ② Gear

Figure 4-344

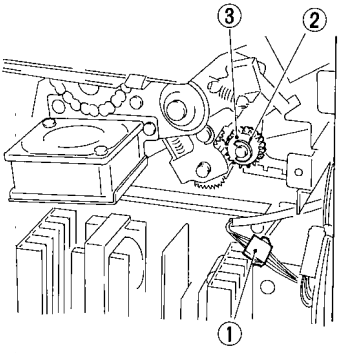
4) Remove the E-ring, and detach the bushing.



① E-ring ② Bushing

Figure 4-345

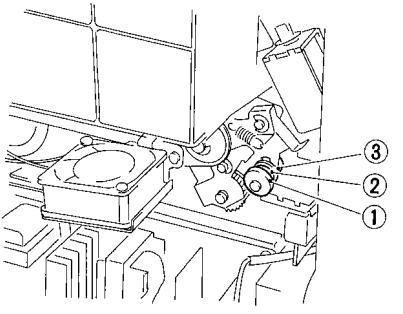
5) Detach the rear cover.
6) Detach the DC controller together with its mount.
7) Disconnect the connector.
8) Remove the E-ring, and detach the collar and the gear (w/ pin).



① Connector ③ Gear
② E-ring

Figure 4-346

9) Detach the collar and remove the E-ring; then, detach the bushing.



① Collar ③ Bushing
② E-ring

Figure 4-347

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5) Move the lower feeder inlet roller assembly to the rear of the machine, and match the flat cut-out of the shaft with the slit of the rear plate; then, pull the lower feeder inlet roller assembly in the direction of the arrow to detach.

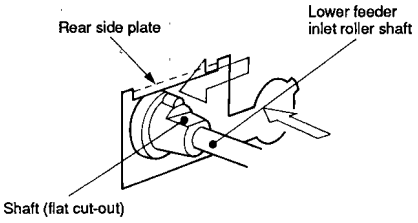
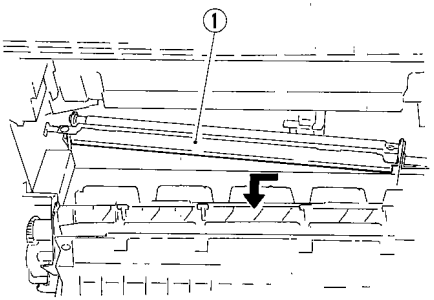


Figure 4-348



① Lower feeder inlet roller assembly

Figure 4-349

D. Delivery Assembly

1. Construction

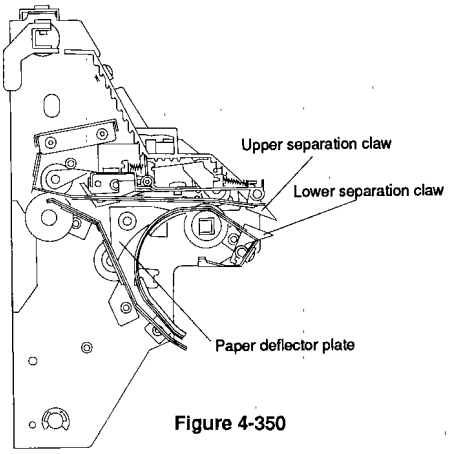


Figure 4-350

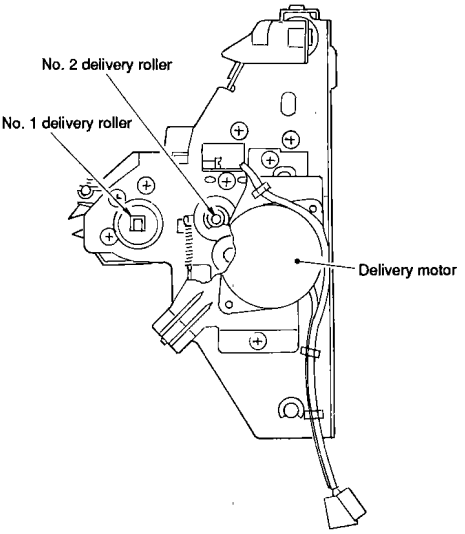


Figure 4-351

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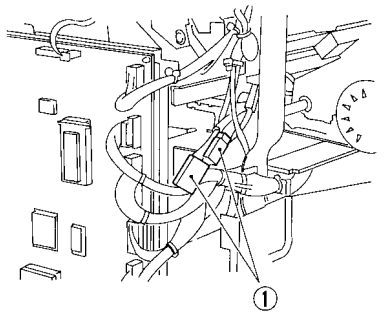
2. Detaching the Delivery Assembly

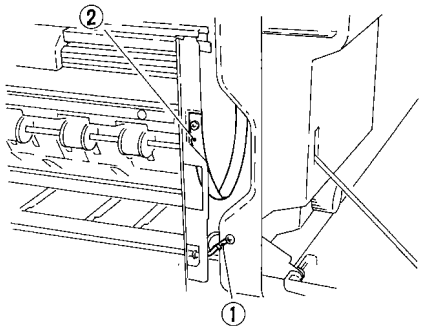
1) Detach the rear cover.
2) Detach the lower front cover.
3) Detach the left cover.
4) Open the front door.
5) Remove the two screws, and detach the delivery cover.
6) Disconnect the two connectors (6-pin, 3-pin) from the delivery assembly, and push them inside the machine.



① Connectors

Figure 4-352

7) Close the delivery assembly, and remove the door tape.
8) Remove the screw, and detach the grounding wire.

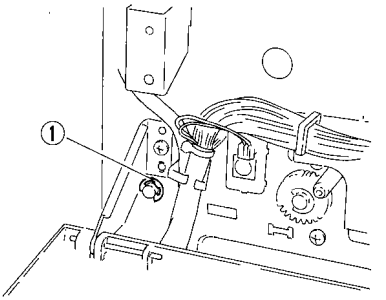


① Grounding wire ② Door tape

Figure 4-353

9) Detach the inside left cover.

10) Remove the E-ring.



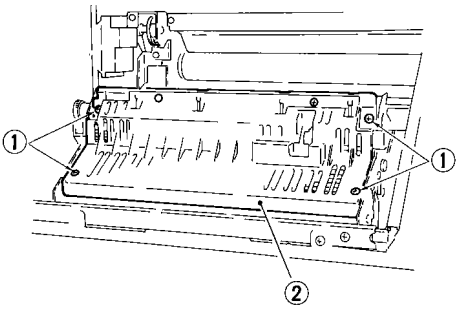
① E-ring

Figure 4-354

11) Open the delivery assembly, and move it to the rear to detach.

3. Detaching the Upper Separation Claw

1) Open the delivery assembly.
2) Remove the four screws, and detach the upper cover.



① Screws (4 pcs.) ② Upper cover

Figure 4-355

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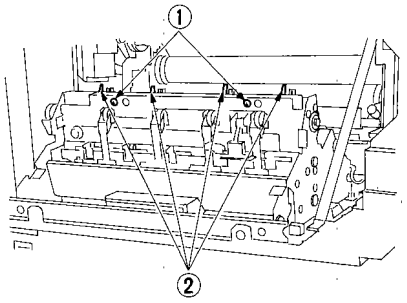
3) Remove the two screws, and detach the upper separation claw.



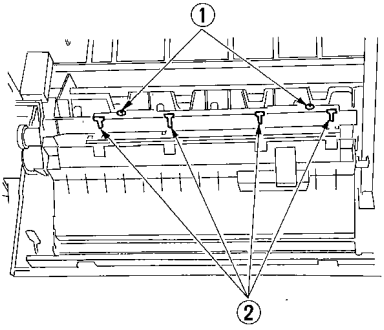
① Screws (2 pcs.) ② Upper separation claw

Figure 4-356

Note:
Attach the upper separation claw to the screw hole on the left (Figure 4-356).

4. Detaching the Lower Separation Claw

1) Open the delivery assembly.
2) Remove the two screws, and detach the lower separation claw.



① Screws (2 pcs.) ② Lower separation claws

Figure 4-357

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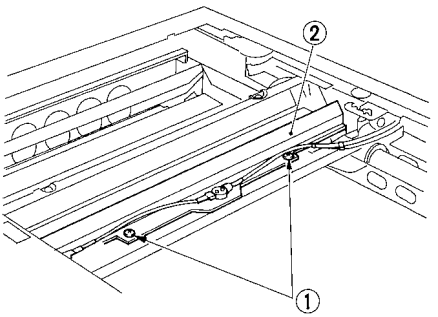
IV. EXPOSURE SYSTEM

A. Exposure Assembly

Note:
Make sure that the power plug is disconnected when disassembling or checking the exposure assembly.

1. Detaching the Scanning Lamp

1) Detach the copyboard glass.
2) Remove the two screws, and detach the upper reflecting plate.

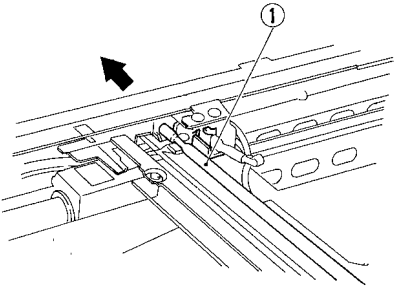


① Screws (M4×10) ② Upper reflecting plate

Figure 4-400

3) Hold the front of the scanning lamp, and detach it to the front while pushing it to the rear.

Note:
The lamp may come into contact with the front/rear side reflector plate (Figure 4-402); be sure to mark the position of the plate using a scriber if it must be detached to facilitate the work.



① Scanning lamp

Figure 4-401

Note:
1. Make sure that the scanning lamp is not hot before starting work.
2. Do not leave fingerprints on the scanning lamp.
3. If the scanning lamp is soiled, dry wipe it.

2. Adjusting the Position of the Side Reflecting Plate

If necessary, move the side reflecting plate of the No. 1 mirror mount into the direction shown in Figure 4-402 to increase the intensity at the ends for lighter image edges on the copies.

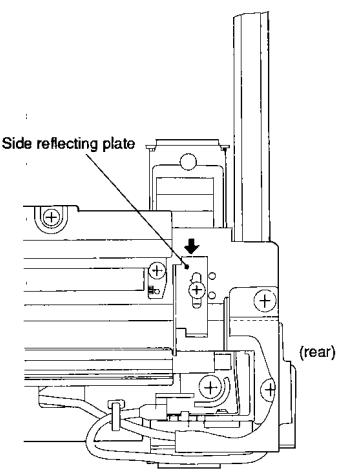


Figure 4-402

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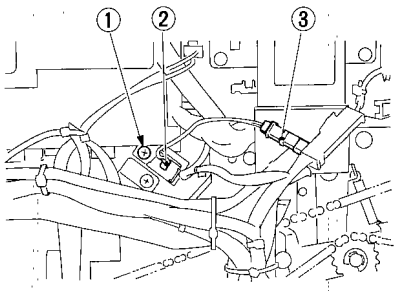
B. Pre-Exposure Lamp Assembly

1. Removing the Pre-Exposure Lamp

1) Detach the rear cover.
2) Remove the screw shown in Figure 4-403.
3) Pull out the pre-exposure lamp, and disconnect the connector (J35).



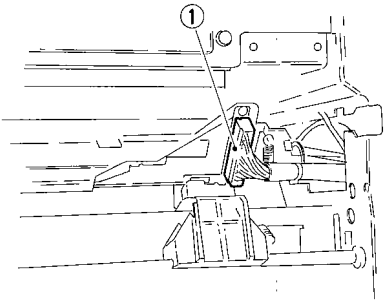
① Screw
② Pre-exposure lamp
③ Connector

Figure 4-403

C. Blank Exposure Lamp Assembly

1. Detaching the Blank Exposure Lamp

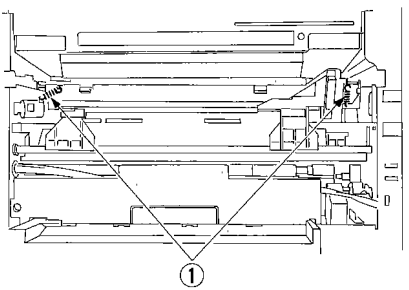
1) Detach the drum unit.
2) Detach the right cover.
3) Disconnect the connector.



① Connector

Figure 4-404

4) Remove the two springs.



① Springs

Figure 4-405

5) Detach the rear cover.

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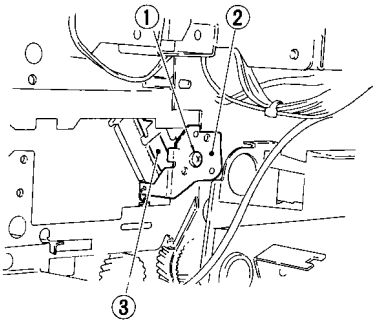
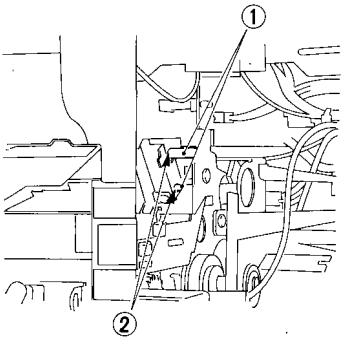
6) Hold the blank exposure lamp; then, remove the screw, and detach the blank exposure lamp support plate.
7) Pull out the blank exposure lamp to the rear.



① Screw
② Blank exposure lamp support plate
③ Blank exposure lamp

Figure 4-406

Note:
Attach the blank exposure lamp so that the two pins each of the front and rear support plates are fitted as shown in Figure 4-407.



① Pins
② Holes

Figure 4-407

2. Adjusting the Position of the Blank Exposure Lamp

1) Place the Test Sheet on the copyboard.
2) Check that the registration (left, right) is correct; otherwise, make the adjustments given in the SERVICE HAND BOOK.
3) Select 'A4'.
4) Make a copy in the DIRECT mode.
5) Check the image, and measure the non-image width shown in Figure 4-408; standard, W1 = 2.0 ±1.0 mm.

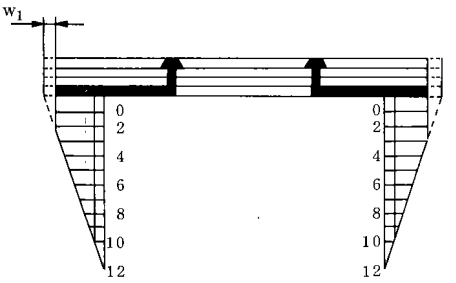
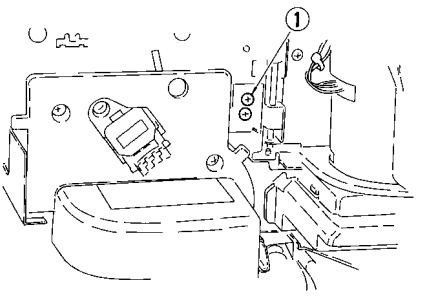


Figure 4-408

6) If the non-image width is outside the standards, turn the adjusting screw on the front end plate to adjust the position of the blank exposure lamp assembly.



① Adjusting screw

Figure 4-409

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V. CORONA ASSEMBLIES

A. Drum Unit

1. Outline

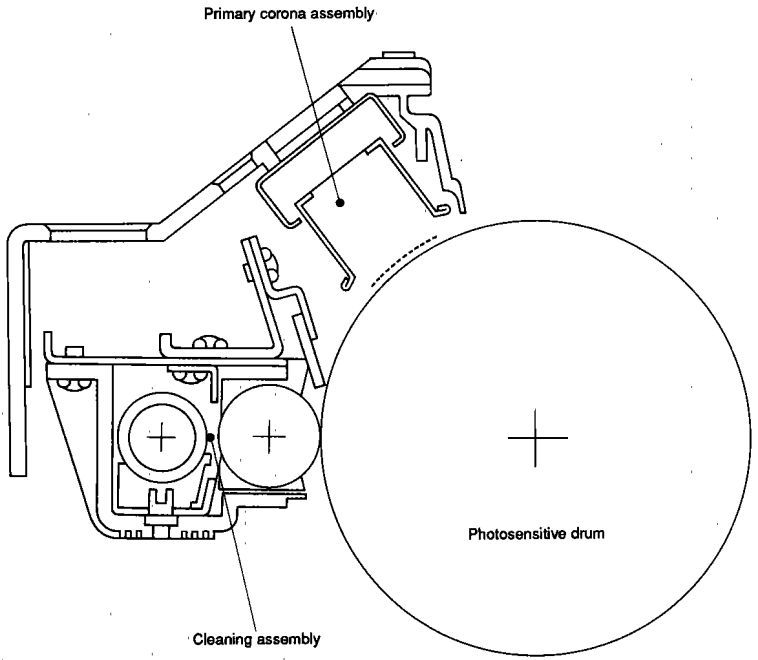

Figure 4-500

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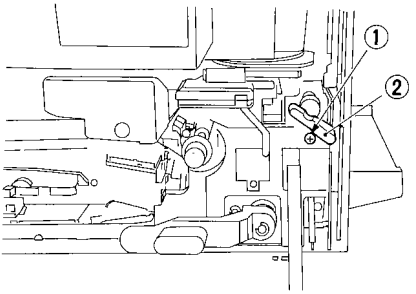
2. Detaching the Drum Unit

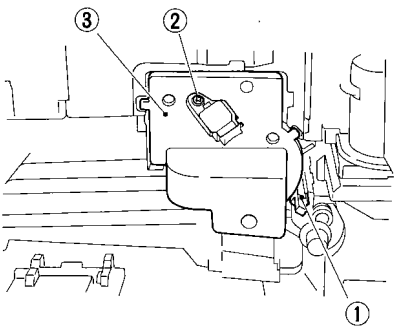
1) Open the front door.
2) Release the feeder assembly.
3) Remove the stepped screw, and turn the lock lever clockwise.



① Stepped screw ② Lock lever

Figure 4-501

4) Open the hopper.
5) Pull out the pre-transfer corona assembly.
6) Remove the screw, and pull out the drum unit.



① Pre-transfer corona assembly ② Screw ③ Drum unit

Figure 4-502

7) Hold the drum unit as shown in Figure 4-503, and detach it.

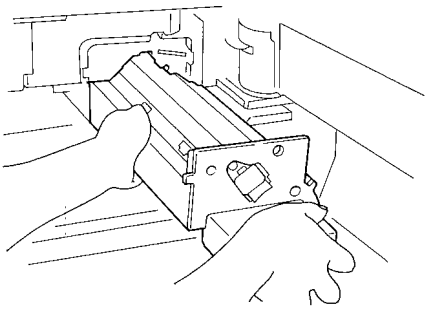


Figure 4-503

Note:
The machine's photosensitive drum is susceptible to light; room lights are enough to cause changes in its photo medium, resulting in copies with white spots and black lines. Wrap the drum with light-blocking sheet (or fresh copy paper) as soon as it is taken out of the machine, and place it on a flat surface and keep it in a dark place.

Note:
i. The drum separation claw is disengaged automatically when the drum unit is inserted; do not touch the drum separation claw to avoid injuries.
ii. Make sure that the drum separation claw is in contact with the drum after attaching the drum unit.
iii. Be sure to shift the lock lever to engage the black developing assembly after attaching the drum unit.

3. Detaching the Photosensitive Drum

1) Detach the drum unit from the copier; see p. 4-36.

Note:
i. Protect the photosensitive drum against light to prevent residual memory on its medium.
ii. Take care no to damage the photosensitive drum when detaching the toner receptacle.

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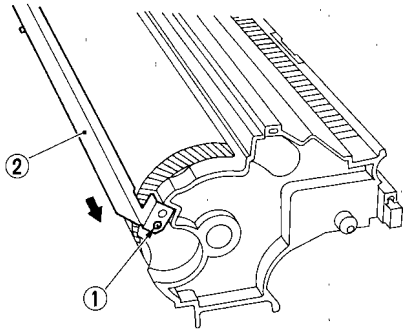
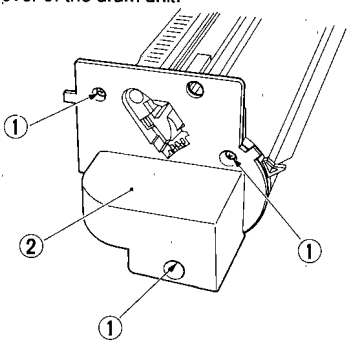
2) Remove the mounting screw (M3x6) from the toner receptacle, and move the receptacle into the direction of the arrow to detach.



① Screw ② Toner receptacle

Figure 4-504

3) Detach the primary corona assembly; see p.4-39.
4) Remove the three screws, and detach the front cover of the drum unit.

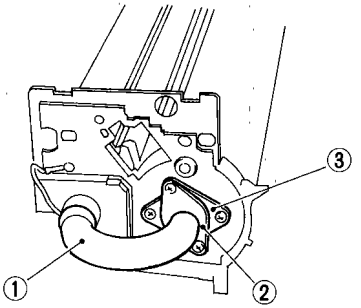


① Screws ② Front cover

Figure 4-505

5) Pull out the screwpipe on the drum support shaft side; remove the two screws each (M4), and detach the drum inside support shaft and the drum support shaft.

Note:
Toner will fall out when detaching the screwpipe.

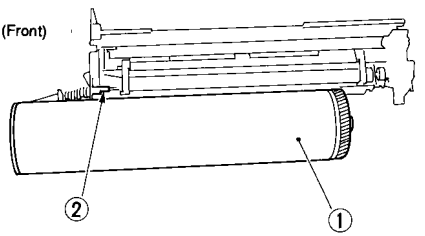


① Screwpipe ③ Drum support shaft
② Drum inside support shaft

Figure 4-506

6) Move the photosensitive drum to the front, and detach it from the rear.

Note:
i. Take care so that the photosensitive drum will not hit against the protrusion.
ii. The detachment causes the drum bushing at the rear to come off together.
iii. Tape the opening to prevent toner from coming out of the photosensitive drum.



① Photosensitive drum ② Protrusion

Figure 4-507

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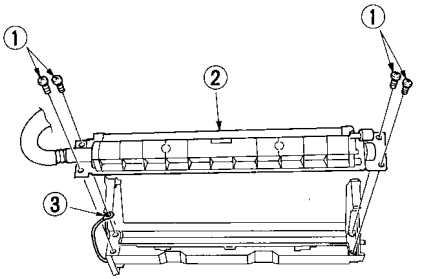
4. Detaching the Drum Cleaning Unit from the Drum Unit

1) Detach the photosensitive drum; see p. 4-36.
2) Remove the four screws, and detach the drum cleaning unit; one of the screws is used to hold the grounding wire in place.



① Screws
② Drum cleaning unit
③ Grounding wire

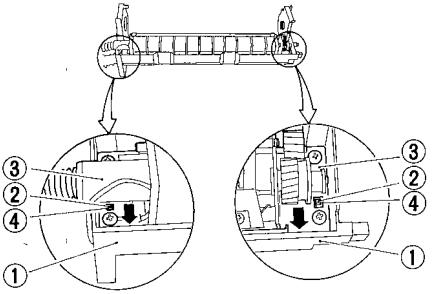
Figure 4-508

Note:

i. Take care not to damage the cleaning blade and the claning roller.
ii. Do not remove screws other than those mentioned.
iii. Take care not to spill the waste toner.

5. Points to Note When Attaching the Drum Cleaning Unit

Fit the bosses at the front and the rear of the cartridge frame with the holes in the drum cleaning unit; fix the unit in place while pushing it in the direction of the arrow using screws.



① Cartridge frame
② Bosses
③ Drum cleaning unit
④ Hole

Figure 4-509

6. Cleaning

If the surface of the photosensitive drum is soiled, wipe it using a flannel cloth coated with toner; do not use paper, lint-free or otherwise.

Note:

Do not dry wipe the surface or use solvent; do not use drum cleaning powder.

7. Points to Keep in Mind When Replacing the Drum Unit

Record the date of replacement and the counter readings on the label (Figure 4-510) after replacing the drum unit; attach the label on the front cover of the new drum.

日付 date date Datum	カウンター counter compteur Zahler	備考 notes note Notiz

Figure 4-510

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8. Waste Toner

a. Outline

The waste toner collected by the cleaning assembly is stored in the photosensitive drum. When the drum becomes full of waste toner, the 'DISPOSE OF TONER' message appears on the display.

Replace the drum unit when the message appears.

Note:
Copies may still be made after the message is displayed; waste toner, however, will start to drop into the feeder assembly about 200 copies later. Replace the drum unit as soon as possible when the message appears.

B. Corona Assembly

1. Outline

The photosensitive drum is surrounded by three corona assemblies: primary, pre-transfer, and transfer/separation corona assemblies.

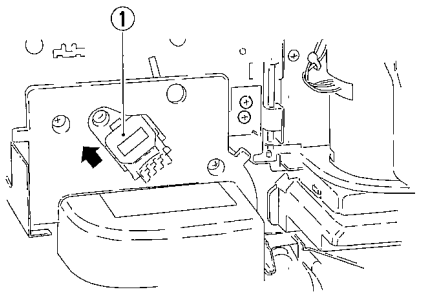
The primary corona assembly is equipped with a grid of wire (16 runs).

The grid wire is a corona wire 0.1 mm in diameter; other corona wires are 0.06 mm in diameter. The corona wires are gold-plated; although the grid wire is not gold-plated, a gold-plated corona wire may be substituted in the field.

2. Disassembly and Assembly

a. Detaching the Primary Corona Assembly

1) Lift the primary corona assembly, and slide it out.



① Primary corona assembly

Figure 4-511

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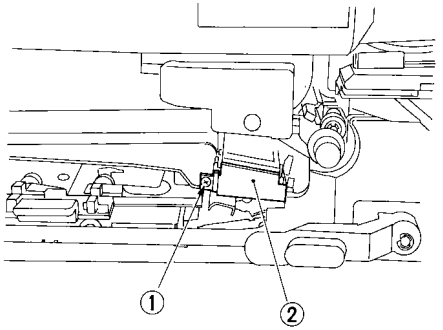
b. Detaching the Transfer/Separation Corona Assembly

1) Open the front door.
2) Release the feeder assembly.
3) Remove the screw, and detach the transfer/separation corona assembly cover.



① Screw ② Transfer/Separation corona assembly cover

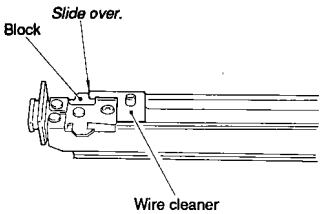
Figure 4-512

4) Slide out the transfer/separation corona assembly.

c. Routing the Corona Wire for the Primary, Pre-Transfer, and Transfer/Separation Corona Assemblies

1) Slide the wire cleaner over the block of the corona assembly as shown in Figure 4-513, and detach it.

<Primary Corona Assembly>



<Transfer/Separation Corona Assembly>

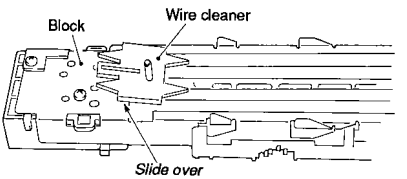


Figure 4-513

2)
- For the primary corona assembly, remove the screw, and detach the shield plate.
- For the separation corona assembly, remove the screw, and open the shield plate; then, detach the paper guide.

3) Move the two covers of the corona assembly to the end of the assembly to detach.
4) Free about 4 mm of corona wire from its reel (0.06-mm dia.), and form a loop about 2 mm in diameter.

Note:
When forming a loop, wind the wire around a hex key once; then, turn the hex key three to four times, and then twist the wire.

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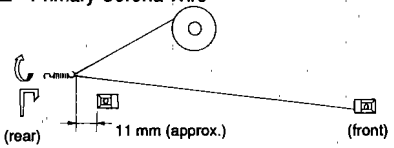
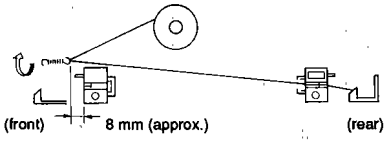
5) Cut the end (excess) of the twisted end to 1 mm or less using a cutter.
6) Hook the loop of the corona wire as shown in Figure 4-514, and route it along the V-groove of the height adjusting roll.
   Hook the corona wire tensioning spring on the corona wire, and twist the spring three to four times as shown in Figure 4-514.

■ Primary Corona Wire



■ Transfer/Separation Corona Assembly



■ Pre-Transfer Corona Assembly

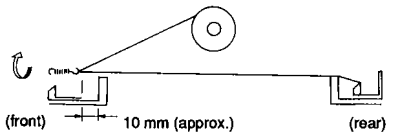


Figure 4-514

7) Cut the excess corona wire to 1 mm or less using a cutter.
8) Pick the end of the corona wire tensioning spring using tweezers, and hook it on the corona electrode.

Note:
Check the following:
- **The corona wire is free of breaks and twists, and its gold-plating has not peeled.**
- **The corona wire is free of slack.**
- **The corona wire is routed through the V-groove of the height adjusting roll.**
- **The gut wire of the transfer/separation corona assembly is routed through the groove.**
- **The corona wire is in the pad of the wire cleaner; i.e., when attaching the wire cleaner.**

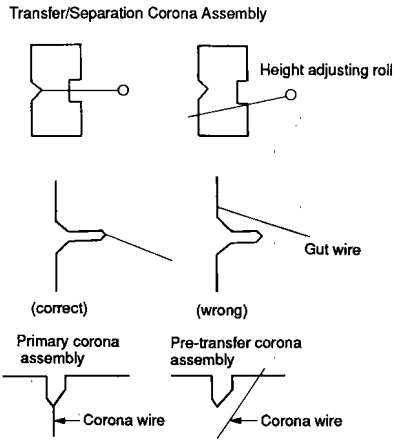


Figure 4-515

Note:
Silicone grease is applied along the V-groove of the height-adjusting roll of the transfer/separation corona assembly to prevent vibration of the corona wire; if necessary, apply silicone grease (CK-0439) along the groove, taking care it will not seep out the groove.

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Note:
Attach the wire cleaner to the transfer/separation corona assembly so that the pad of the wire cleaner will open out; attach it from the front.

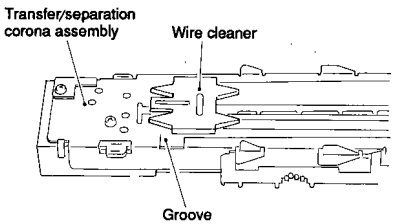
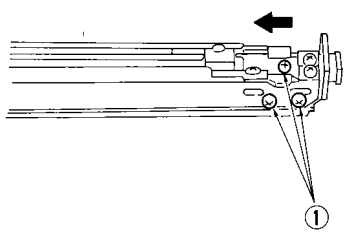


Figure 4-516

d. Routing the Grid Wire for the Primary Corona Assembly

1) Loosen the three mounting screws that hold the block (front) in place; move the block (front) in the direction of the arrow (Figure 4-517), and fix it in place temporarily.



① Mounting screws

Figure 4-517

Note:
When forming a loop, wind the wire around a hex key once; then, turn the hex key four to five times, and then twist the wire.

2) Free a length of corona wire (0.1-mm dia.) from its reel, and form a loop at its end 2 mm in diameter.
3) Cut the end (excess) of the wire to 1 mm or less using a cutter.
4) Hook the loop on the stud shown in Figure 4-518, and route the wire in the order given in the figure.
5) Check that the wire has been strung 16 runs; then, wind the end of the wire on the fixing screw to fix it in place.
6) Cut the end (excess) to 1 mm or less using a nipper.
7) Loosen the screw tightened temporarily in step 1), and move the block into the opposite direction of the arrow (Figure 4-517); then, adjust the tension of the grid.
8) Dry wipe the grid wire.
9) Make sure of the following:
   - The grid wire is free of breaks and twists, and its gold-plating has not peeled.
   - The runs of the wire are at even intervals, i.e., the wire is in the groove of the block.

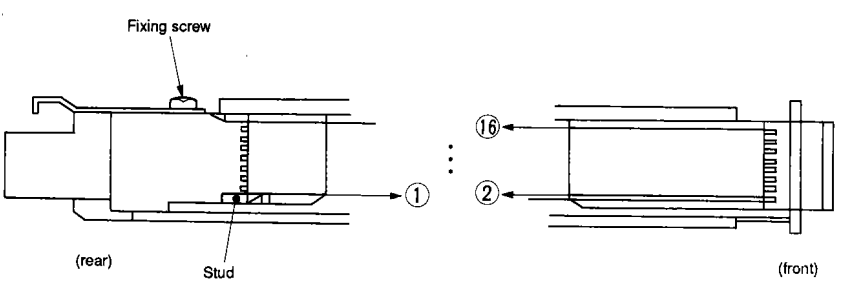


Figure 4-518

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3. Adjusting the Height of the Corona Wire

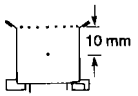
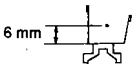
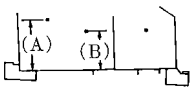
Corona assembly	Standard	Tolerance
Primary	Value on label  (10 mm from the center grid wire)	±3 mm
Pre-transfer	 (no height adjusting mechanism)	—
Transfer	Value on label	
Separation	Value on label  (no height adjusting mechanism)	

Figure 4-519

a. The height (position) of the primary and transfer corona wires can be adjusted by turning the screw found behind the respective corona assembly; a full turn of the screw moves the corona wire by about 0.7 mm.
b. The values shown in Figure 4-519 are standards; and measurements taken at the factory for each machine are recorded on the label attached to the drum unit. Use the values recorded on the label when making the above adjustments.

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4. Routing the Gut Wire

Note:
Do not pull on the gut wire with force; after routing the wire, measure the opening of the corona assembly, and make sure that its center is not narrower than its both ends by 0.5 mm or more.

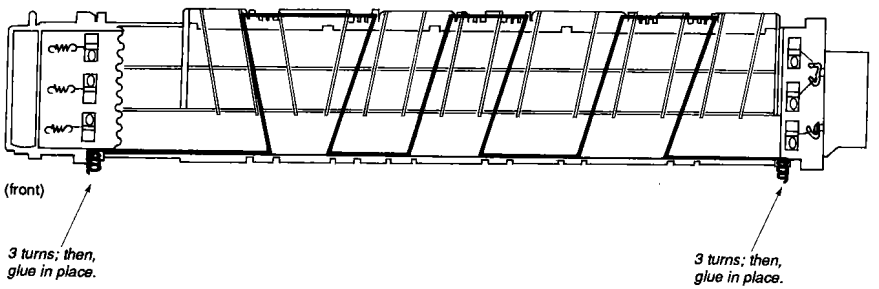

Figure 4-520

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C. Separation Claw Assembly

1. Construction

The separation claw moves back and forth over a length of 16 mm along the shaft of the photosensitive drum; it makes a single round trip for about each 75 copies (A4, non-continuous).

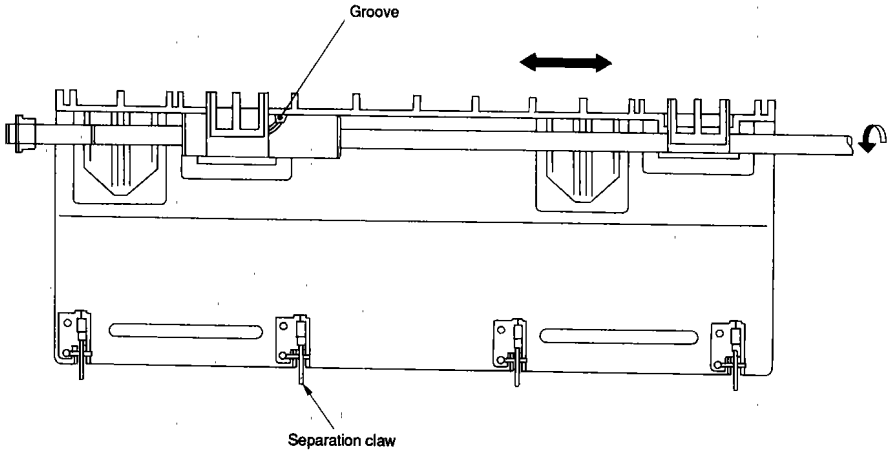
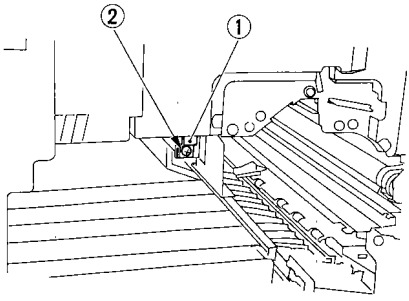


Figure 4-521

2. Detaching the Separation Claw

1) Open the front door.
2) Detach the drum unit.
3) Remove the screw, and detach the separation claw shaft stopper.
4) Push the bushing to the rear, and detach the separation claw assembly.

Note:
Take care not to bring the tip of the separation claw into contact with the belt; be careful not to damage the separation claw after it has been detached. Exercise caution when handling the separation claws; they are extemly sharp.



① Separation claw shaft stop
② Screw

Figure 4-522

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VI. DEVELOPING SYSTEM

A. Black Developing Assembly

1. Construction

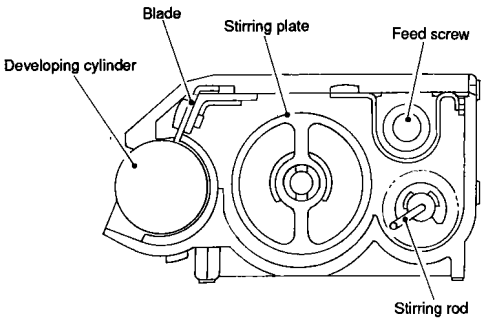
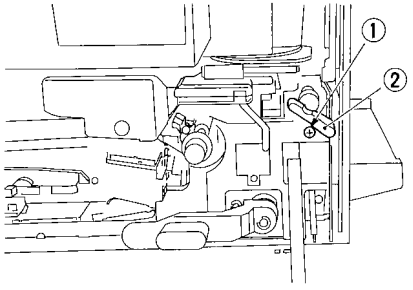


Figure 4-600

2. Detaching the Black Developing Assembly

1) Open the front door.
2) Remove the stepped screw; then, turn the lock lever clockwise to release the developing assembly.

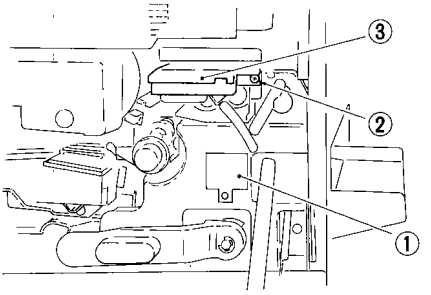


① Stepped screw ② Lock lever

Figure 4-601

3) Shift the feeder assembly release lever.

4) Disconnect the connector (J26; 3-pin) found behind the inside cover and the screw from the black developing assembly.



① Inside cover ③ Black developing assembly
② Screw

Figure 4-602

5) Slide out the black developing assembly slowly to the front; hold the developing assembly on its bottom to detach the developing assembly.

Note:
Do not hold the developing assembly as if to hold the developing cylinder from its both ends; otherwise, toner may start to cake.

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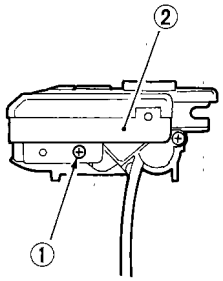
3. Detaching the Blade and the Developing Cylinder

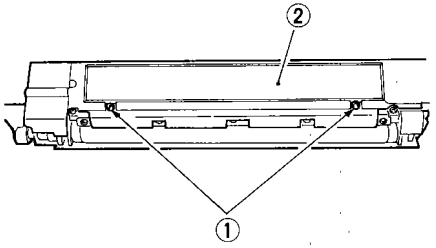
1) Detach the developing assembly from the machine.
2) Remove the self-tapping screw, and disengage the grip.



① Self-tapping screw ② Grip

Figure 4-603

3) Remove the two non-magnetic screws, and detach the developing cover.

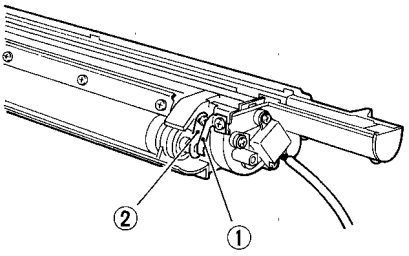


① Non-magnetic screws ② Developing cover

Figure 4-604

4) Pour out the toner on waste paper (newspaper).

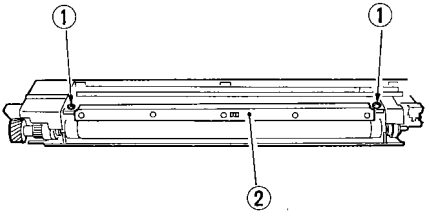
5) Remove the screw, and detach the electrode plate at the front.
6) Remove the self-tapping screw, and detach the magnetic fixing plate.



① Electrode plate (front) ② Magnetic fixing plate

Figure 4-605

7) Remove the two non-magnetic screws, and detach the blade together with its mount.



① Non-magnetic screws ② Blade

Figure 4-606

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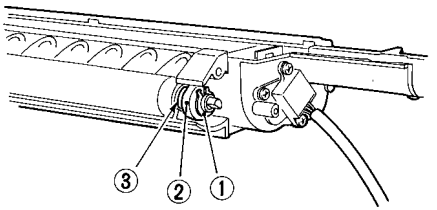
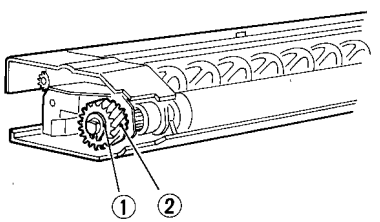
8) Remove the grip ring at the front, and detach the developing roll and the ball bearing.



① Grip ring ③ Ball bearing
② Developing roll

Figure 4-607

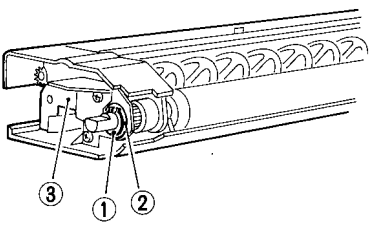
9) Remove the grip ring at the rear, and detach gear A.



① Grip ring ② Gear A

Figure 4-608

10) Remove the grip ring, and detach the washer and the bearing.
11) Remove the non-magnetic screw, and detach the gear unit.

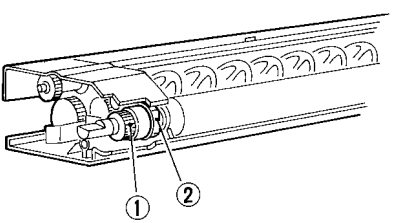


① Grip ring ③ Gear unit
② Bearing

Figure 4-609

12) Detach gear B (w/ pin) and the developing roll.

Note:
Take care not to drop the pin.



① Gear B ② Developing roll

Figure 4-610

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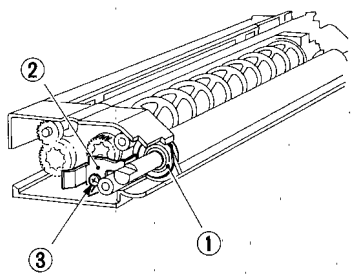
13) Remove the self-tapping screw, and detach the electrode plate (rear) together with the ball bearing.



① Ball bearing
② Electrode plate (rear)
③ Screw

Figure 4-611

14) Detach the developing cylinder.

4. Attaching the Developing Cylinder and the Blade

1) Attach the developing cylinder.

Note:
i. The developing cylinder has its own orientation; keep the longer shaft to the rear.
ii. Do not leave finger prints or oil on the surface of the developing cylinder; if necessary, dry wipe it using lint-free paper.

2) Attach the ball bearing together with the electrode plate at the rear; see Figure 4-613.

Note:
i. Do not use the screw at the time to fix the electrode plate in place.
ii. Rotate the electrode plate into the direction of the arrow in advance to facilitate insertion of the blade mount in step 4); see Figure 4-612.

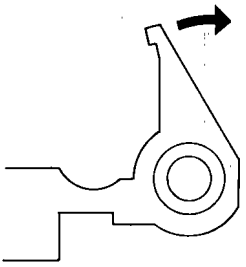


Figure 4-612

Note:
Make sure that the ball bearing (rear) is correctly positioned in the developing cylinder.

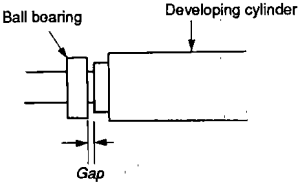


Figure 4-613

3) Attach the front ball bearing.
4) Attach the mount together with the blade to the container using two non-magnetic screws; see Figure 4-614.

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Note:
The blade is attached with high precision; do not detach it from its mount.

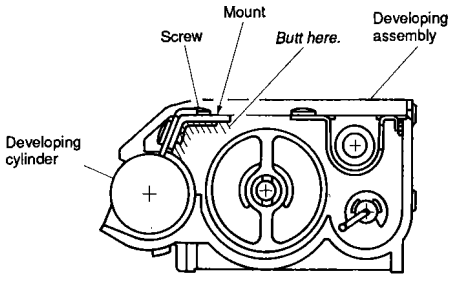

Figure 4-614

5) Turn the electrode plate at the rear in the direction of the arrow, and fix it in place using a self-tapping screw.

Note:
i. Make sure that the blade mount is in firm contact with the electrode plate.
ii. Make sure that the blade electrode has not ridden over the blade mount.
After attaching the blade to the developing assembly, be sure to check the gap from the developing cylinder; see p. 4-51.

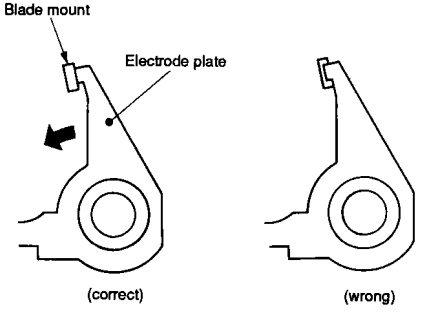

Figure 4-615

6) Attach the developing roll, the pin, and gear B at the rear; see Figure 4-610.
7) Attach the gear unit together with the bearing using a non-magnetic screw.
8) Fit two washers, and slide the grip all the way up to the groove of the shaft of the developing cylinder.
9) Attach gear A, and fix it in place using a grip ring.
10) Attach the developing roll at the front, and fix it in place using a grip ring.

Note:
Keep a gap of about 0.3 mm between the roll and the grip ring with the ball bearing (Figure 4-613 butted against the developing cylinder, and check to make sure that the roll rotates smoothly.

11) Attach the polarity plate at the front.
12) Push the polarity plate lightly in the direction of A, and then release it.
13) Push the polarity plate into the direction of A until line D on the plate faces notch C on the container.

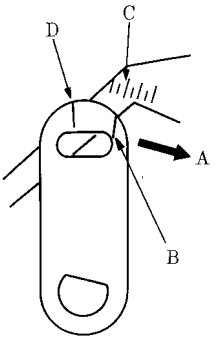

Figure 4-616

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14) Attach the polarity plate at the front using a screw.

Note:
Make sure that the polarity plate is in firm contact with the shaft of the developing cylinder.

15) Put toner into the black developing assembly as for installation (TONER_S; ✳ 4 ✳).
16) Attach the developing cover using two non-magnetic screws and the grip using a self-tapping screw.

Note:
Do not leave fingerprints or oil on the surface of the developing cylinder; if necessary, dry wipe it using lint-free paper. If the copies are still affected after through cleaning, replace the developing cylinder as a whole.

5. Developing blade Mount/Adjustment Procedure

Note:
i. If possible, avoid removing the developing blade as a single part. Instead, remove or mount it together with the support plate. (When mounting the blade together with the support plate, perform operations starting with step 6) of the adjustment procedure.)
ii. Mounting of the developing blade must be performed after cleaning the developing blade and developing cylinder.
iii. Since the developing cylinder is easily damaged, pay extra attention when inserting or withdrawing the gap gauge.
iv. If the gap gauge is damaged or broken replace, it with a new one.
v. If the reference face of the gap gauge becomes stained with oils from your hand, the developing blade may also become stained during adjustment; therefore, do not touch the gauge with your fingers.

1) Temporarily secure the developing blade to the support plate using screws. At this time, the boss of the support plate must be in the hole of the developing blade.

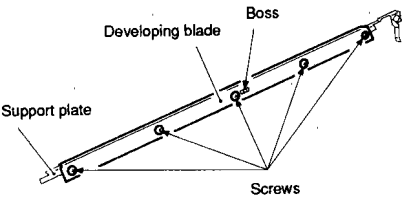

Figure 4-616A

2) As shown in Figure 4-616B, pinch the OK side of the gap gauges between the developing blade and developing cylinder (3 locations), and use the two screws to secure the developing blade to the developing assembly together with the support plate. (At this time, be careful not to strike the developing blade against the developing cylinder.)

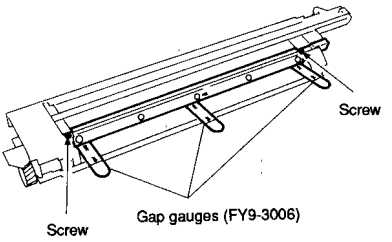

Figure 4-616B

3) While lightly pressing on the developing blade, fix it with two screws as shown in Figure 4-616C. (Note that if the developing blade is pressed heavily, the developing cylinder may become damaged when the gap gauges are pulled out.)

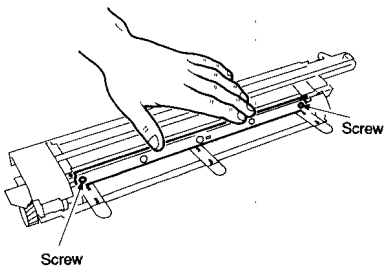

Figure 4-616C

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4) Turn the eccentric boss shown in Figure 4-616D until the developing blade slightly touches the gap gauge, and secure it with the center screw.
5) Secure the remaining two screws and gently pull the gap gauges out. At this time, repeat step 3) and thereafter if the gauge is extracted with difficulty.

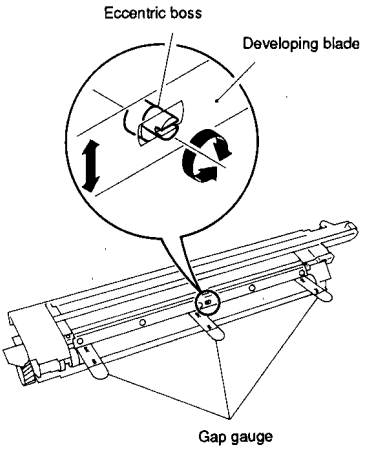


Figure 4-616D

6) Check that the OK side of the gap gauge can be inserted smoothly and also that the NG side can not be inserted at the three locations where the gap gauges were pinched.
7) If the OK side of the gap gauge gets caught or the NG side allows free passage, loosen the screw at that location to readjust.
8) Repeat steps 6) and 7) until the gap between the developing blade and the developing cylinder reaches an optimum gap.

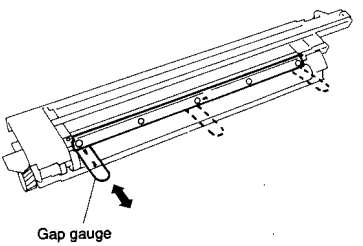
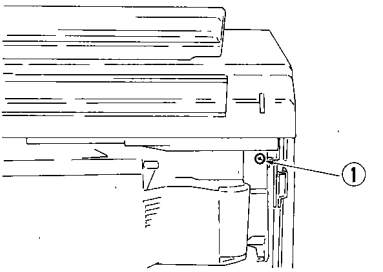


Figure 4-616E

B. Hopper

1. Detaching the Hopper

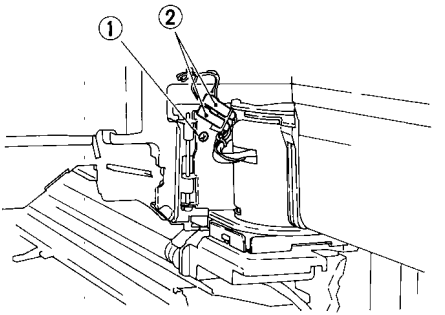
1) Open the front door.
2) Turn the lock lever clockwise to release the black developing assembly.
3) Detach the pre-transfer corona assembly and the drum unit.
4) Check that the hopper is closed, and remove one of the fixing screw.



① Screw

Figure 4-617

5) Open the hopper.
6) Remove the screw, and disconnect the two connectors.



① Screw ② Connectors

Figure 4-618

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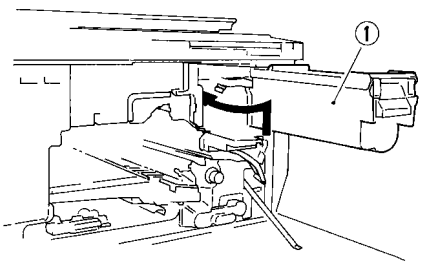
7) Lift the hopper (hinge), and swing it inside.



① Hopper

Figure 4-619

Note:
Do not turn the rotary shutter shown in Figure 4-620.

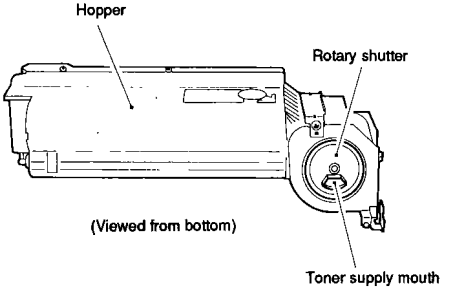
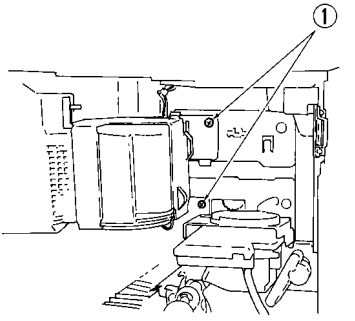


Figure 4-620

Note:
If the hopper is heavy with toner, hold the hopper by hand; remove teh screws from the bottom.

8) Remove the two screws, and detach the hopper.



① Screws

Figure 4-621

2. Points to Note When Attaching the Hopper

- Engage the hook on the hinge (Figure 4-622) on the frontend plate.

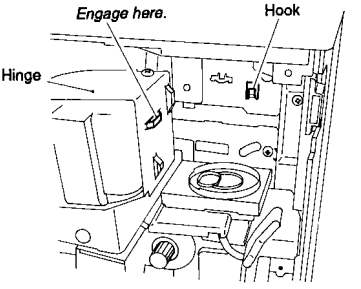


Figure 4-622

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- Be sure to engage the hook of the hinge assembly on the hook of the front end plate as shown in Figure 4-623.

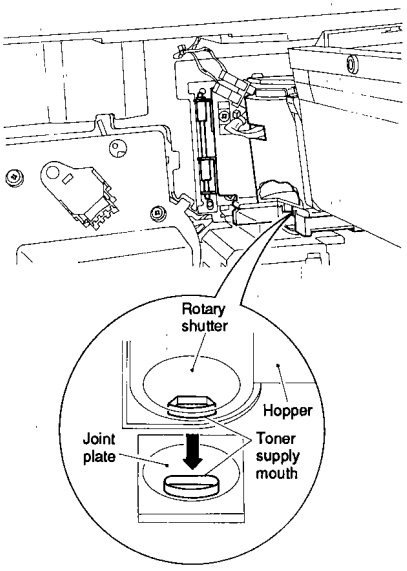
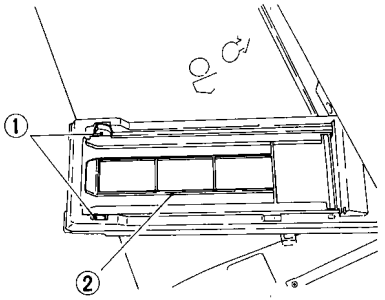


Figure 4-623

3. Opening the Hopper Cover

Press the latch to open the cover as shown in Figure 4-624.



① Latch ② Cover

Figure 4-624

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VII. FIXING SYSTEM

A. Fixing Assembly

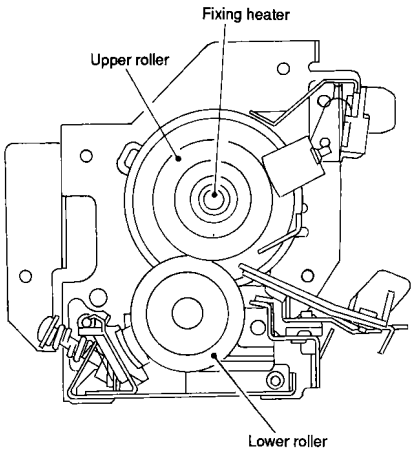


Figure 4-700 Cross Section (fixing assembly)

1. Engagement

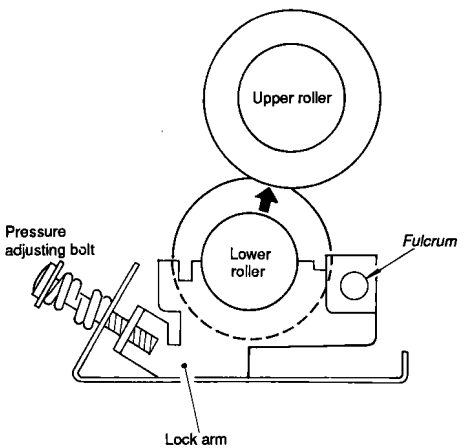


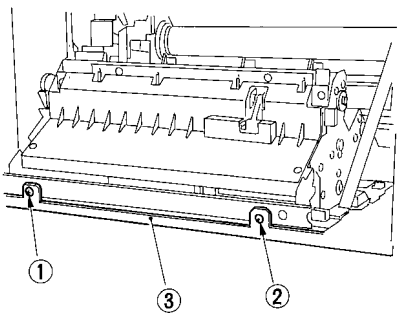
Figure 4-701

The position of the lock arm shown in Figure 4-701 can be changed by turning the pressure adjusting bolt found at the front and the rear of the fixing assembly.

A clockwise turn of the pressure adjusting bolt causes the lower roller to move in the direction of the arrow, thereby increasing the roller pressure.

2. Detaching the Fixing Assembly

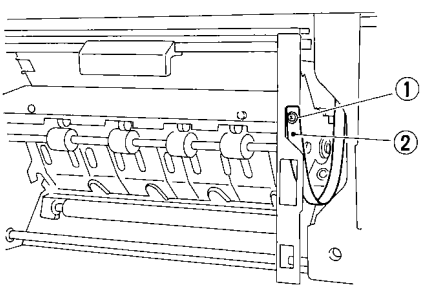
1) Open the front door.
2) Open the delivery assembly, and remove the two screws; then, detach the delivery cover.



① Screw
② Stepped screw
③ Delivery cover

Figure 4-702

3) Remove the screw, and remove the door tape of the delivery assembly.



① Screw
① Door tape

Figure 4-703

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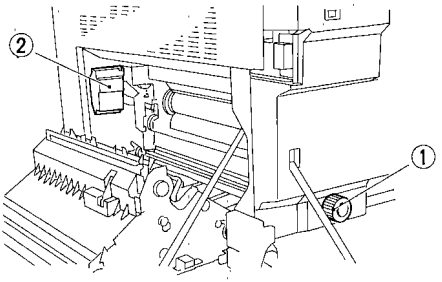
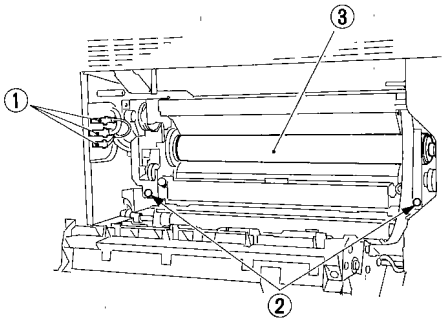
4) Remove the screw and the washer; then, detach the fixing assembly knob.
5) Remove the screw, and detach the connector cover.



① Fixing assembly knob ② Connector cover

Figure 4-704

6) Disconnect the three connectors (J60, 3-pin; J2, 2-pin; J84, 2-pin).
7) Remove the two screws, and slide out the fixing assembly.

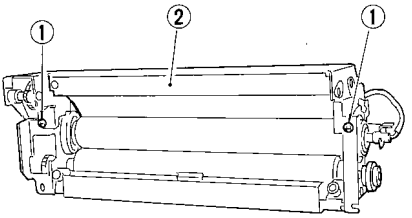


① Connectors ③ Fixing assembly
② Screws

Figure 4-705

3. Detaching the Heater, Upper Roller, and Lower Roller

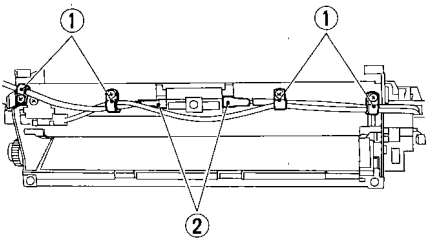
1) Detach the fixing assembly.
2) Remove the two screws, and detach the cleaning assembly.



① Screws ② Cleaning assembly

Figure 4-706

3) Detach the four harness retainers; 1 screw each.
4) Pull out the two fastons from the thermal switch.



① Harness retainers ② Fastons

Figure 4-707

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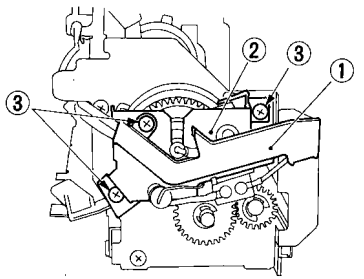
5) Remove the screw, and detach the harness guide.
6) Remove the two screws, and detach the heater fixing plate; then, pull out the heater.

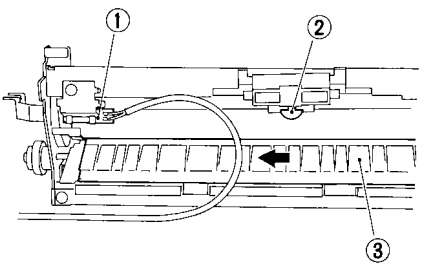
Note:
Make sure that the connector is at the front when attaching the heater.



① Harness guide ③ Screws
② Heater fixing plate

Figure 4-708

7) Remove the screw, and detach the thermistor and the thermoswitch.
8) Move the paper guide in the direction of the arrow to detach.

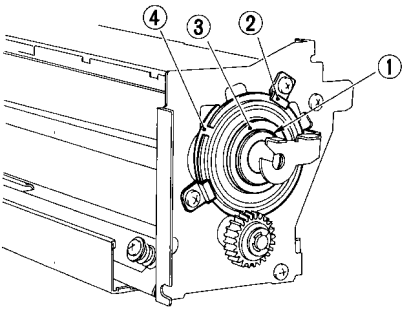


① Thermistor ③ Paper guide
② Thermoswitch

Figure 4-709

9) Remove the C-ring; then, remove the screw from bearing retainer (2 pcs.), and detach the bearing together with the insulating bushing.

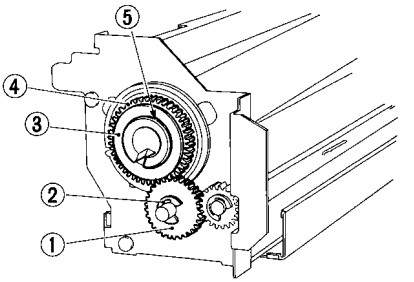
Note:
The insulating bushing is fragile; handle it with care.



① C-ring ③ Insulating bushing
② Bearing retainer ④ Bearing

Figure 4-710

10) Remove the E-ring, and detach the gear at the rear; 1 grip ring.
11) Remove the C-ring, and detach the electrode plate and the roller shaft gear; 1 E-ring.



① Gear ④ Electrode plate
② Roller shaft gear ⑤ C-ring
③ E-ring

Figure 4-711

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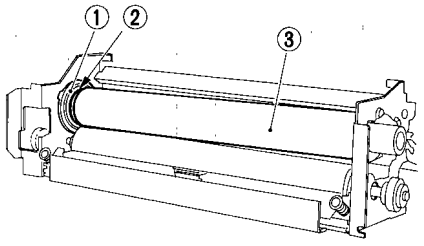
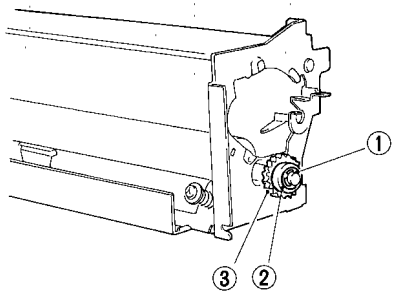
12) Detach the bushing and the insulating bushing at the gear, and pull out the upper roller while forcing it against the lower roller.



① Bushing
② Insulating bushing
③ Upper roller

Figure 4-712

13) Remove the E-ring from the lower roller, and remove the two collars and the gear (w/ pin).
14) Lift the lower roller from the bushing, and detach it.



① E-ring
② Collars
③ Gear

Figure 4-713

4. Attaching the Heater

- Take care not to touch the surface of the heater.
- Attach it so that the connector is at the rear.

5. Attaching the Upper Roller

Attach the upper roller so that the cut is at the rear.

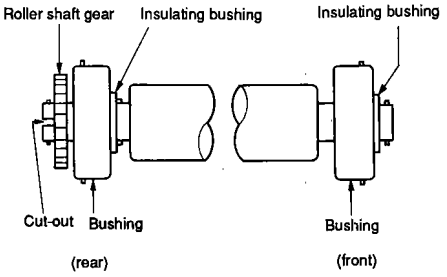


Figure 4-714

6. Attaching the Thermistor and the Thermoswitch

Make sure that the sensor faces of the thermistor and the thermoswitch are in even contact with the surface of the upper roller.

Note:
The position of the thermistor and the thermoswitch need not be adjusted; if the contact is not even, check to make sure that the leaf spring is not deformed.

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7. Measuring and Adjusting the Nip Width

a. Adjustment (adjusting the pressure adjusting bolt)

Check if the nip width is within the standards shown in Table 4-700; otherwise, adjust it using the bolt.

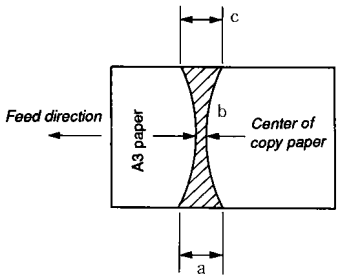

Figure 4-715

Note:
a and c represent points 10 mm from both sides.

Distance	Measurements*
b	5.3 ± 0.3 mm
| a − c |	0.5 mm or less

Table 4-700

* Take measurements when the upper and lower rollers are sufficiently heated.

b. Measurement

If the rollers are cold, wait about 15 min after wait-up; make 20 copies, then take measurements.

1) Lift the copyboard cover, and make a solid black copy (A3).
2) Switch the machine OFF as soon as the leading edge of the copy paper comes out to the copy tray; then, open the front door and the delivery assembly.
3) Turn the fixing assembly knob clockwise slightly, and hold it for 15 sec; then, turn the fixing assembly knob farther to remove the copy paper.
4) Measure the width of the paper where the toner is shiny; see Figure 4-715.

8. Positioning the Paper Guide

The paper guide can be detached by pulling it to the front; the guide may be attached by reversing the steps for detachment. As a rule, the position of the paper guide need not be adjusted.

Note:
Do not detach the paper guide mount; the mount determines the position of the paper guide.
If the position of the paper guide must be adjusted, detach the upper and lower fixing rollers, and move the paper guide mount so that the distance from the lower stay is about 40.8 mm as shown in Figure 4-716.

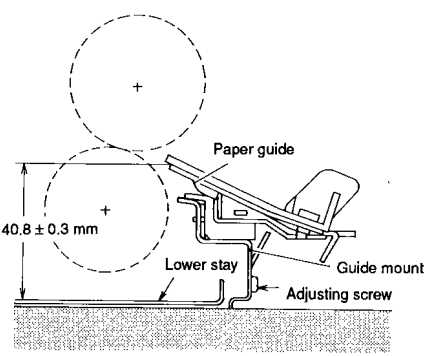

Figure 4-716

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9. Lubrication

Apply heat-resisting grease (CK-0427) over the following on a periodical basis:

- engagement of gears (rear)
- engagement of gears of fixing assembly knob (front)

10. Impregnating the Lower Fixing Roller Cleaner with Silicone Oil

If the felt used for the lower fixing roller cleaner must be replaced in the field, impregnate it with oil to ensure good fixing.

a. Before Work

Make sure the following are available:

- Lower fixing roller cleaner (with new felt attached)
- Silicone oil (S-200; FY0-8202 or KF9-0400)

b. Impregnation

1) Impregnate the felt of the lower fixing roller cleaner with silicone oil (S-200; 6 cc); make sure the felt is soaked evenly.
2) Leave the cleaner more than 24 hours at 25°C (approx.) before use.

Note:
Do not use the cleaner immediately after impregnation; otherwise, the oil will seep into the fixing roller, causing faulty fixing and, in some cases, staining the copies.

B. Cleaning Assembly (fixing assembly)

1. Outline

The cleaning assembly is located at the top of the fixing assembly and serves to clean the upper roller by keeping a silicone-impregnated belt in contact with the upper roller.

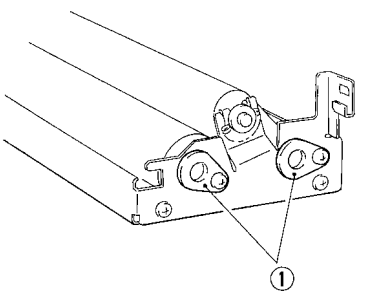
The belt is 15 m in length, and a red band is printed 2.5 m from its end.

Note:
Reset 'WEB' in the counter mode of the service mode upon each replacement of the cleaning belt.

2. Disassembly and Assembly

a. Detaching the Cleaning Belt

1) Detach the fixing assembly.
2) Remove the two mounting screws, and detach the cleaning assembly; see Figure 4-706.
3) Remove the screws (1 pc. each), and detach the two bushings from the cleaning assembly; then, detach the cleaning belt.



① Bushings

Figure 4-717

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b. Attaching the Cleaning Belt

The service part for the cleaning belt consists of the feed shaft, take-up shaft, and belt, all constructed as a single entity.

Attach the cleaning belt by reversing the steps used for detaching it with the following in mind.

- Wind the belt around the take-up shaft two to three times; at the time, check that the section of the belt in contact with the roller is impregnated with oil.

Note:
Check that the belt is not askew and is free of slack or wrinkle.

c. Position of the Cleaning Belt Drive Solenoid (SL2)

Attach the solenoid so that the section shown in Figure 4-718 is 03.±0.1 mm when the lever is moved in the direction of A.

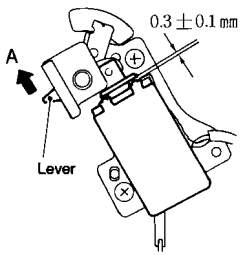

Figure 4-718

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VIII. ELECTRICAL

A. DC Controller

The DC controller is equipped with a built-in battery (BAT101); keep the following in mind, as shorting both terminals of the battery can cause overheating.

1. When Detaching the DC Controller

- Detach it together with the shield plate.

2. When Replacing the DC Controller

- When sending the DC controller for repair or relocation, keep it attached to the shield plate and protect it in a conductive bag. The conductive bag must be transparent on one side, and the DC controller put in it so that the face of the controller shows through the bag.
- After replacement, enter all settings in the service mode and the user mode all over again.

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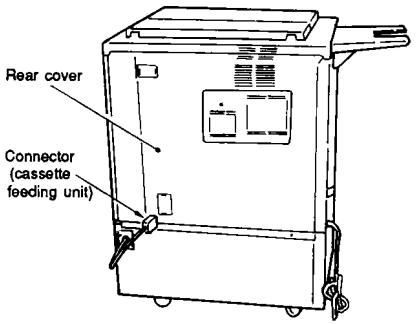
IX. CASSETTE FEEDING UNIT

A. Detaching the Copier from the Cassette Feeding Unit

1) Disconnect the copier's power plug.
2) Disconnect the cassette pedestal's connector from the copier.



① Rear cover ② Connector

Figure 4-901

3) Lift the copier using its four handles, and detach it from the cassette feeding unit.

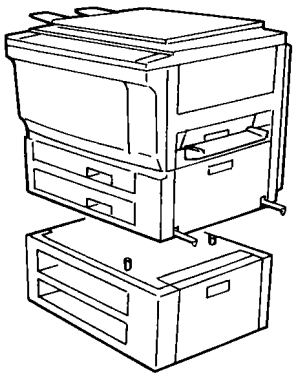


Figure 4-902

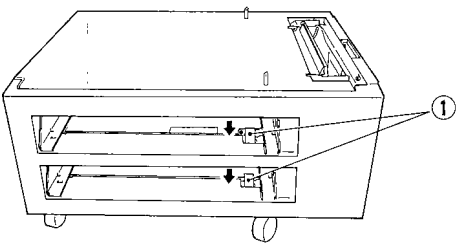
B. 3rd/4th Pick-Up Assembly

1. Detaching the 3rd/4th Pick-Up Assembly

1) Slide out the 3rd and 4th cassettes from the cassette pedestal.

Note:
Do not try to slide out the pick-up assembly with the cassette inside; otherwise, the lifter becomes hooked, preventing the detachment of both the pick-up assembly and the cassette.

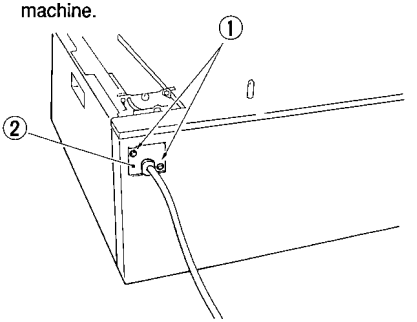
2) Push the lifter release arm into the direction of the arrow to lower the lifter.



① Lifter release arms

Figure 4-903

4) Disconnect the connector of the cassette pedestal from the copier.
5) Remove the two screws, and detach the connector mount; push the connectors inside the machine.



① Screws ② Connector mount

Figure 4-904

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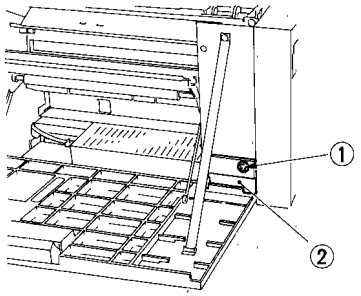
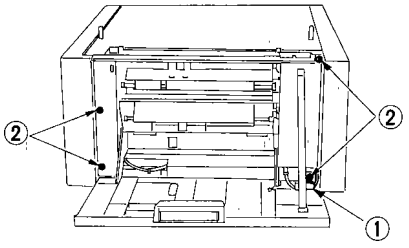
6) Open the lower right door, and detach the blanking plate.



① Screw ② Blanking plate

Figure 4-905

7) Disconnect the connector, and remove the four screws; then, detach the 3rd/4th pick-up assembly.



① Connector ② Screws (4 pcs.)

Figure 4-906

3. Detaching the 3rd and 4th Pick-Up Rollers

- Go through the steps given for the detachment of the 1st and the 2nd rollers of the copier's pick-up assembly; see III. "Feeder System."

4. Detaching the 3rd and 4th Separation/Feeder Rollers

- Go through the steps given for the detachment of the 1st and 2nd separation/feeder rollers; see III. "Feeder System."

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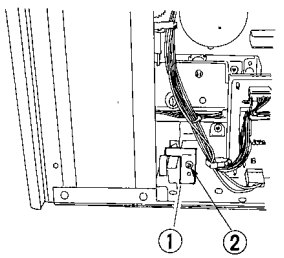
X. PAPER DECK PEDESTAL

A. Detaching the Deck (left/right) deck

1) Remove the five screws, and detach the rear cover of the paper deck.
2) Remove the screw, and detach the deck stop plate.



① Stop plate ② Screw

Figure 4-1000

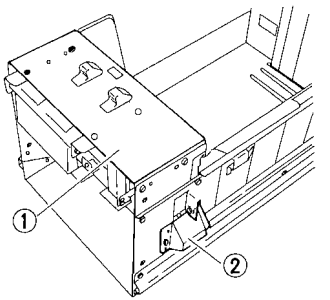
3) Detach the deck unit from the paper deck.

B. Detaching the Lifter Cable (left/right deck)

1) Detach the deck unit from the paper deck.
2) Remove the four screws, and detach the front cover.

Note:
Be sure to mark the position of the front stay before detaching it.

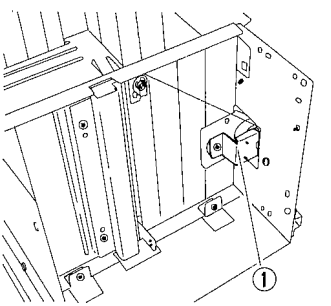
3) Remove the five screws, and detach the front upper stay and the gear cover.



① Front upper stay ② Gear cover

Figure 4-1001

4) Remove the screw, and detach the damper.



① Damper

Figure 4-1002

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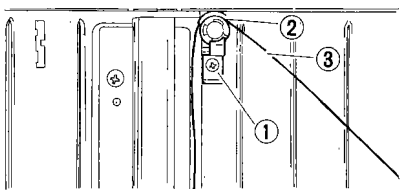
5) Remove the E-ring, and detach the gear, pin, and pulley cover.
6) Detach the cable end from the pulley.
7) Remove the metal stop from the cable relay mount; then, detach the pulley cover and detach the cable from the pulley.

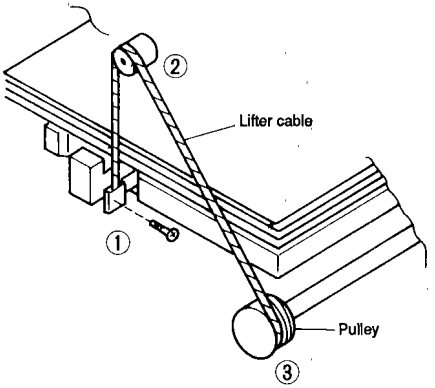


① Metal stop
② Pulley cover
③ Cable

Figure 4-1003

8) Remove the cable mounting screw from the lifter assembly.

Note:
Use the same steps to detach the rear cable. When routing the cable, make sure that the lifter is level over the front and the rear by adjusting the tension of the cable using the cable take-up pulley.



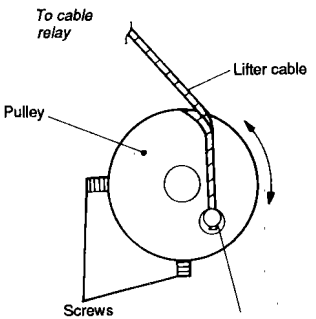


Figure 4-1004 Routing the Lifter Cable

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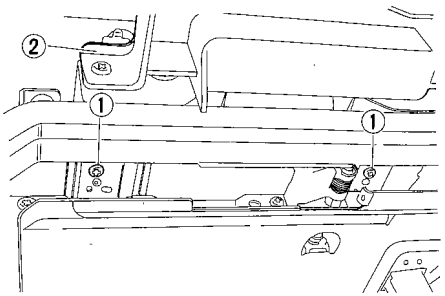
C. Detaching the Left Feeder Assembly

1) Detach the right deck.
2) Detach the left deck.
3) Remove the two screws that hold the left feeder assembly in place.



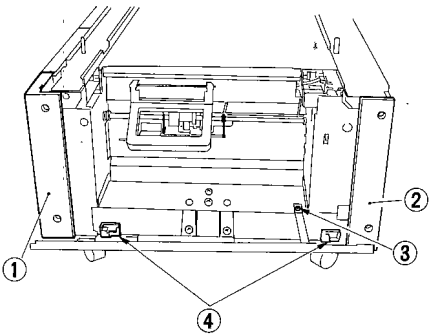
① Left feeder assembly
② Left feeder assembly stop screw

Figure 4-1005

4) Slide out the left feeder assembly to the front, and detach it from the paper deck.

D. Detaching the Right Pick-Up Unit

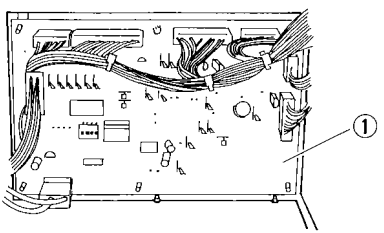
1) Detach the right deck from the paper deck.
2) Detach the left deck from the paper deck.
3) Detach the left feeder assembly.
4) Detach the front right cover and the rear right cover; then, remove the belt stop screw, and detach the two right door hinges.



① Front right cover
② Rear right cover
③ Right door belt stop screw
④ Right door hinges

Figure 4-1006

5) Disconnect the seven connectors, and remove the two screws; then, detach the deck controller PCB.



① Deck controller PCB

Figure 4-1007

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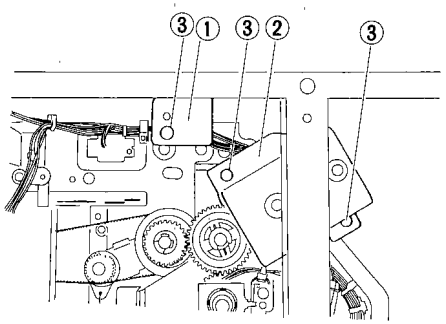
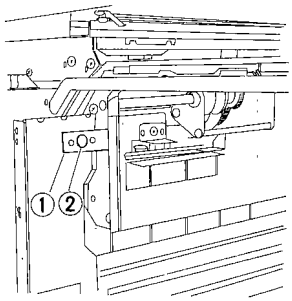
6) Remove the three screws, and detach the rear support plate and the left feeder shaft support plate.



① Rear support plate
② Left feeder shaft support plate
③ Screws

Figure 4-1008

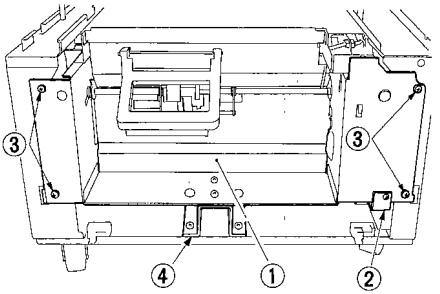
7) Remove the screw, and detach the front support plate.



① Front support plate ② Screw

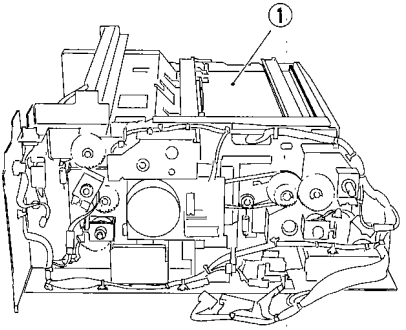
Figure 4-1009

8) Remove the screw, and detach the right pick-up stop plate.
9) Remove the support plate.
10) Remove the four unit fixing screws, and slide out the right pick-up unit.



① Right pick-up unit ③ Screws
② Right pick-up stop plate ④ Support plate

Figure 4-1010



① Right pick-up unit

Figure 4-1011

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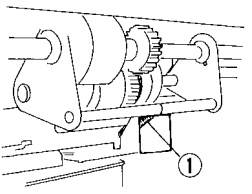
E. Detaching the Right Separation Roller

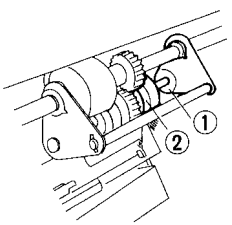
1) Open the right door.
2) Detach the shaft retainer spring.



① Shaft retainer spring

Figure 4-1012

3) Remove the two E-rings.



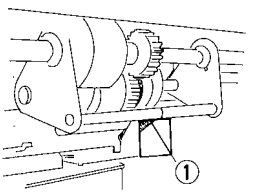
① E-ring ② Separation roller

Figure 4-1013

4) Detach the right separation roller together with its shaft.

F. Detaching the Left Separation Roller

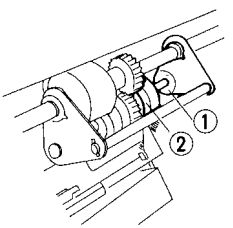
1) Detach the right pick-up unit.
2) Detach the shaft retainer spring.



① Shaft retainer spring

Figure 4-1014

3) Remove the two E-rings.



① E-ring ② Separation roller

Figure 4-1015

4) Detach the left separation roller together with its shaft.

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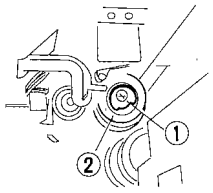
G. Detaching the Right Feeder Roller

1) Detach the right deck from the paper deck.
2) Remove the E-ring.
3) Slide out the right feeder roller to the front.



① E-ring ② Right feeder roller

Figure 4-1016

Note:
The feeder roller has its own orientation; attach it as shown in Figure 4-1017.

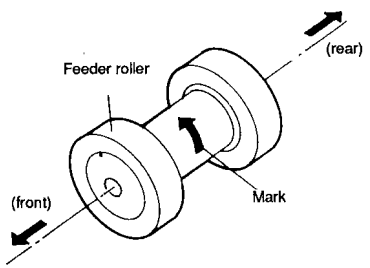
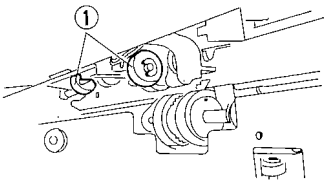


Figure 4-1017

H. Detaching the Right Pick-Up Roller

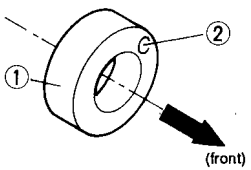
1) Detach the right deck from the paper deck.
2) Detach the pick-up roller from the collar.



① Pick-up roller

Figure 4-1018

The pick-up roller has its own orientation; attach it so that the mark on the roller is toward the front.



① Pick-up roller ② Mark

Figure 4-1019

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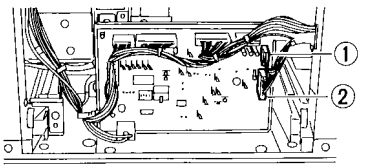
I. Detaching the Left Pick-Up Unit

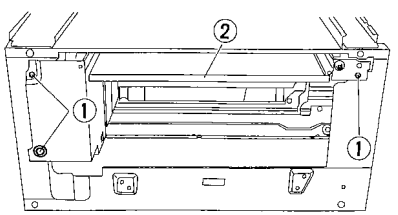
1) Detach the rear cover, and detach the left deck from the paper deck.
2) Disconnect J707 and J708 from the deck controller.



① J707 ② J708

Figure 4-1020

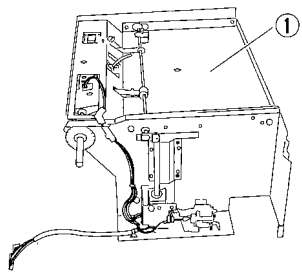
3) Remove the two screws, and detach the left feeder shaft support plate; see Figure 4-1008.
4) Remove the four screws, and detach the left cover.
5) Remove the three left pick-up unit fixing screws.



① Left pick-up unit fixing screws ② Left pick-up unit

Figure 4-1021

6) Slide out the left pick-up unit.



① Left pick-up unit

Figure 4-1022

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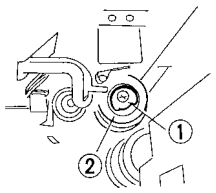
J. Detaching the Left Feeder Roller

1) Detach the left deck from the paper deck.
2) Remove the E-ring.
3) Slide out the left feeder roller to the front.



① E-ring ② Left feeder roller

Figure 4-1023

Note:
The feeder roller has its own orientation; attach it as shown in Figure 4-1024

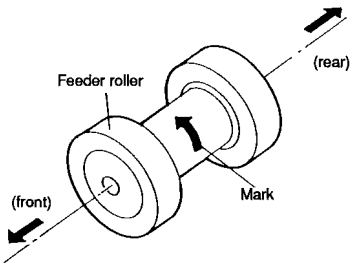
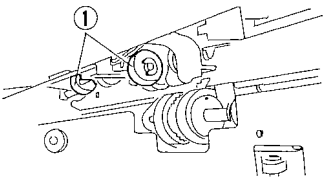


Figure 4-1024

K. Detaching the Left Pick-Up Roller

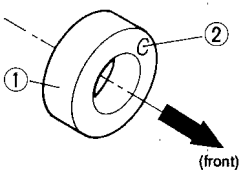
1) Detach the left deck from the paper deck.
2) Detach the pick-up roller from the collar.



① Pick-up roller

Figure 4-1025

The pick-up roller has its own orientation; attach it so that the mark on the roller is toward the front.



① Pick-up roller ② Mark

Figure 4-1026

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I. CHOOSING THE SITE

It is important to keep the following in mind; if possible, visit the user in advance.

- Check to make sure that the wall outlet is dedicated only to the copier.
- Make sure that the site is kept between 15° and 30°C and its humidity is between 5% and 80%; avoid water faucets, water boilers, humidifiers, and refrigerators.
- Avoid open fires or areas subject to dust or ammonium gas; avoid direct sunlight* and install curtains if necessary.
  * *Exposure to direct sunlight can disrupt the auto paper selection and auto reproduction selection mechanisms.*
- Make sure that the room is well ventilated.

Note:
The level of ozone generated by the copying machine is not likely to harm the health of those around it. The odor, however, may prove to be unpleasant to some individuals.

- Make sure that the machine's feet are in contact with the surface of the floor or the cassette feeding unit.
- Keep the machine at least 10 cm away from any wall, and provide space for access.

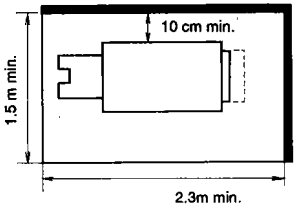

Figure 5-1

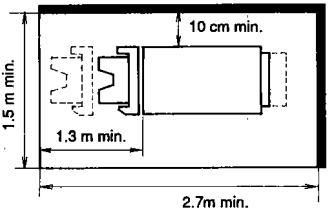

Figure 5-2 With Sorter

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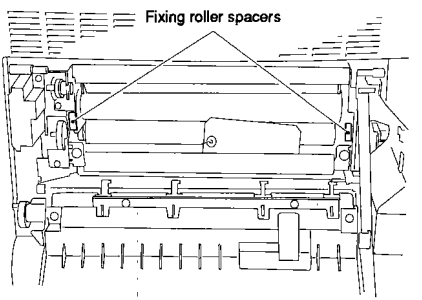
II. UNPACKING AND INSTALLATION

When a piece of metal is brought in from a cold place to a warm room, droplets of water can form on its surface. This phenomenon is called *condensation*, and copiers suffering from condensation may fail to produce images. If condensation is expected, leave the machine alone without unpacking for one hour or more and start the work after it has become fully used to the room conditions.

A. Unpacking

Step	Work	Checks/Remarks
1	Open the shipping box.	
2	Pull out the four handles from the machine, and lift off the machine from the skid.	If the cassette pedestal is to be attached, place the copier on the pedestal. For installation of the cassette pedestal, see the CASSETTE PEDESTAL INSTALLATION PROCEDURE, which comes with the pedestal.
3	Open the cardboard box, and take out the parts and materials.	Make sure that the following are available: • Drum unit • Copy tray • OPERATOR'S MANUAL • Document tray • Screw (for document tray)
4	Open the front door and the delivery door, and detach the two fixing roller spacers.	
5	Close the front door and the delivery door.	

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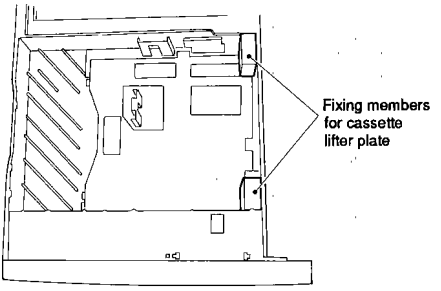
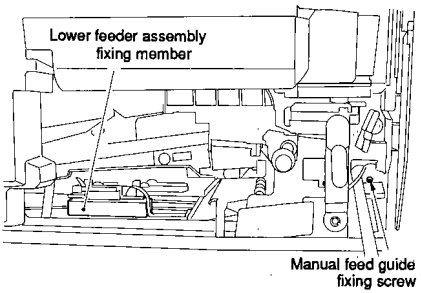
Step	Work	Checks/Remarks
6	Detach the cassette, and detach the fixing member from the cassette lifter plate. (Do not set the cassette as yet; keep it next to the machine.)	
7	Open the front door; then, detach the fixing member from the lower feeder assembly, and remove the fixing screws from the manual feed guide. **Note:** Put away the screws; they will not be used for the installation.	

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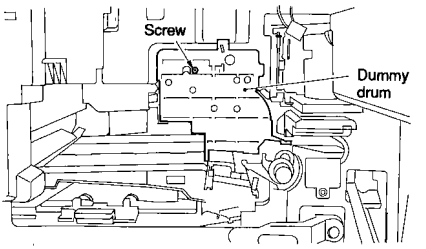
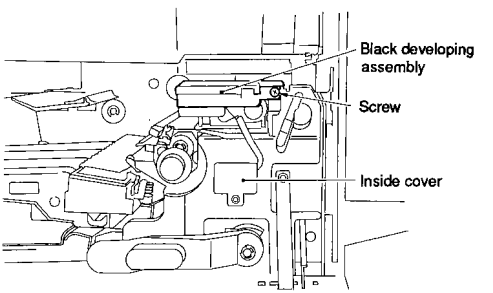
B. Installing the Drum Unit

Step	Work	Checks/Remarks
1	Open the hopper.	
2	Release the feeder assembly, and remove the mounting screw and the tape that holds the separation claw in place; then, detach the dummy drum. **Note:** Keep the screw; it will be used for installation of the drum unit.	
3	Detach the dustproof glass, and clean it using lint-free paper; thereafter, attach the glass.	
4	Detach the pre-transfer corona assembly, and clean the corona wire.	Do not attach the assembly yet.
5	Close the hopper, disconnect the connector behind the inside cover, and remove the mounting screw; then, detach the developing assembly. Check to make sure that the developing cylinder is free of damage.	
6	Take out the drum unit from its box while taking care not to damage its surface.	See the NOTES ON HANDLING THE DRUM UNIT, which comes with the drum unit.

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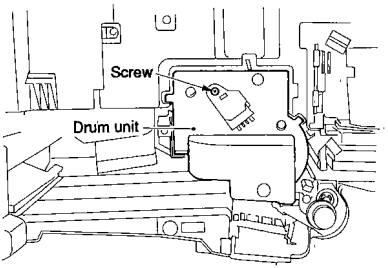
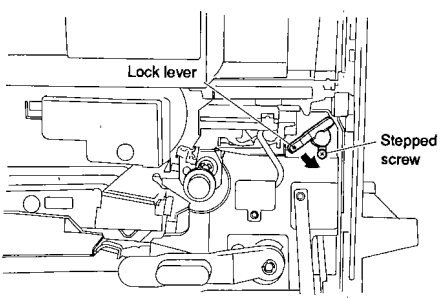
Step	Work	Checks/Remarks
7	Open the hopper, insert the drum unit into the machine; then, fix the drum unit in place using the screw removed in step 2.	• The drum separation claw will be released automatically when the drum unit is inserted; do not touch the separation claw. • After installing the drum unit, make sure that the drum separation claw is in contact with the drum. 
8	Record necessary information on the label, and attach it on the front cover of the drum unit.	
9	Attach the black developing assembly to the copier, and fix it in place using a mounting screw; then, connect the connector. Attach the inside cover.	
10	Remove the stepped screw, and engage the black developing assembly by turning the lock lever counterclockwise; then, fit the stepped screw back into its original position to fix the lock lever in place.	

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C. Starting the Machine, and Setting the User Mode

Step	Work	Checks/Remarks
1	Attach the pre-transfer corona assembly, and attach the feeder assembly.	
2	Connect the power plug into the power outlet.	
3	Insert the door switch actuator into the door switch, and press the power switch to the 'ON' position.	• Press the keys on the numeric keypad and the CLEAR key, and check that the copy count is correct. • Press other keys to make sure that other keys also operate correctly.
4	Put black toner into the hopper after the WAIT indication goes OFF.	E020 is indicated if toner is supplied during warm-up.
5	Make sure that the developing assembly is engaged properly before supplying the assembly with toner in step 7.	**Note:** Do not supply the developing assembly with toner without engaging the assembly; otherwise, the drive system of the hopper may be damaged.
6	Close the hopper.	Be sure to close the hopper; otherwise, its drive mechanism may become damaged.
7	Press the service mode switch (SW501); select 'TONER_S' service mode ([*][4][*]); then press the OK key to supply the developing assembly with toner.	The machine operates for about 7 min (max.) to supply the developing assembly with toner; steps 8 through 11 may be performed during this period. **Note:** Do not switch the machine OFF or remove the door switch actuator while the machine is operating.
8	Set the asterisk modes and 'USER OPTION' settings in the the service mode ([*][5][*]) to suit the needs of the user.	• Weekly Timer • Auto Clear Time • Time/Date
9	Set the cassette to the desired size by re-arranging the guide plate and tabs, and attach the size label.	See E. "Changing the Cassette Size."
10	Put paper into the cassette, and slide the cassette into the machine.	

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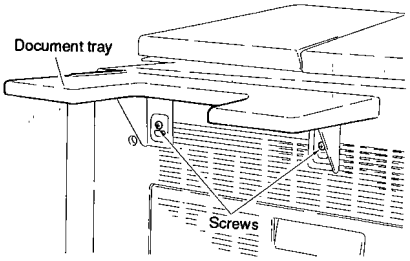
Step	Work	Checks/Remarks
11	Fix the document tray, and tighten the screws temporarily; position the document tray, and then tighten the screws fully.	
12	Attach the copy tray.	

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D. Checking the Images and Operations

Step	Work	Checks/Remarks
1	Set the Test Sheet on the copyboard, and make a copy; then, check the copy image.	• Make sure that no abnormal noise is heard. • Check copy images for each fixed reproduction ratio. • Make sure that the copying operation is normal for different copy counts.
2	Make copies in the manual mode.	• Make sure that the copying operation is normal.
3	Remove the door switch actuator, and close the front door.	
4	Check to make sure that all covers are free of deformation and damage.	
5	Clean up the site.	
6	Move the machine to the installation site.	Make sure that the machine is more or less level.
7	Fill out the Service Sheet.	

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E. Changing the Cassette Size

Change the cassette size to suit the user's needs.

1) Slide out the cassette.
2) Relocate the tabs at the rear of the cassette as shown in the diagram.
3) Move the guide plate inside the cassette to suit the paper size; then, fix the guide temporarily.
4) Allow a gap of 1 to 2 mm between the paper and the guide plate, and fix the guide plate in place.
5) Replace the size label on the cassette.
6) Set the cassette.

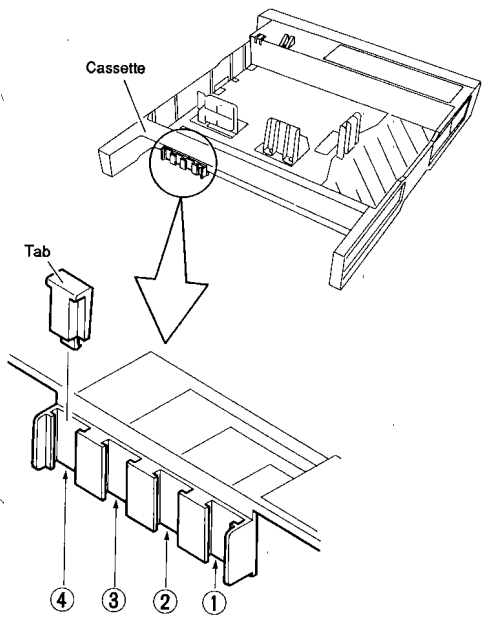

Figure 5-3

Copy Paper Size	Tab No.			
	④	③	②	①
B5	□			
U-L2		□		
A4	□	□		
B5-R			□	
B4	□		□	
A4-R		□	□	
A3	□	□	□	
U-S1				□
U-S2	□			□
U-L1		□		□
LTR	□	□		□
STMT			□	□
LGL	□		□	□
LTR-R		□	□	□
11x17	□	□	□	□

□ . . . . . tab present.

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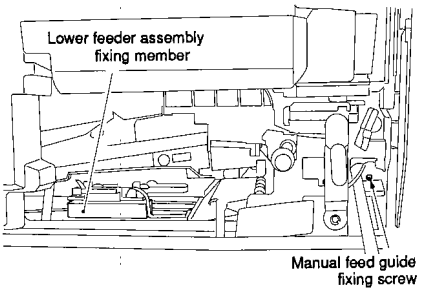
III. RELOCTING THE MACHINE

Go through the steps below before relocating the machine by truck or other means of transportation.

Step	Work	Checks	Remarks
1	Detach the drum unit.	Put the drum unit in its box for protection.	
2	Screw the manual feed guide in place.		
3	Attach the dummy drum.		
4	Tape the corona assemblies, feeder assembly release lever, and lower feeder assembly release lever to protect against vibration.		
5	Tape the front door and the delivery assembly cover in place.		
6	Place a single sheet of A3 copy paper on the copyboard glass, and tape the copyboard cover in place.		

Note: If the truck is not equipped with a lifter, i.e., if the copier needs to be lifted, detach the copier from the cassette pedestal before doing so. (See CHAPTER 4.)

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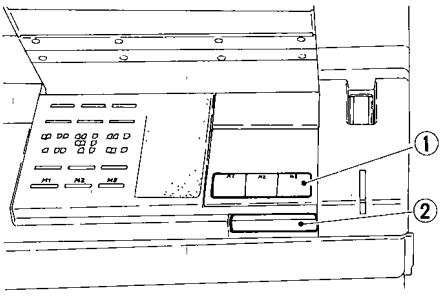
IV. ATTACHING CONTROL CARD V

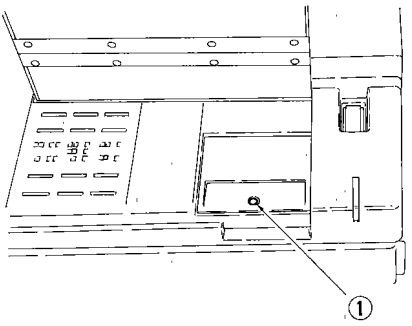
1) Open the front door, and detach the inside left cover.
2) Detach the control panel assembly; see p. 4-3.
3) Detach the blanking plate from the control card slit.
4) Detach the transparent MOMO sheet.



① Transparent MEMO sheet
② Blanking plate

Figure 5-4

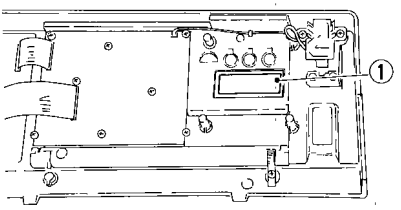
5) Remove the screw from the blanking cover.



① Screw

Figure 5-5

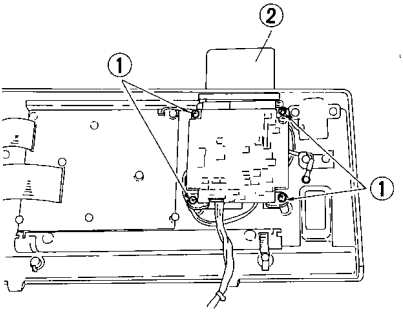
6) Turn over the control panel, and detach the blanking plate.
7) Detach the protection sheet from the transparent sheet.
8) Place the transparent sheet over the hole of the display.



① Transparent sheet

Figure 5-6

9) Detach the protection sheet from the display of Control Card V.
10) Fix Control Card V to the control panel using four mounting screws. Slide in and out a card into Control Card V; fix Control Card V at a point where the card may be slid in and out smoothly.



① Mounting screws ② Control card

Figure 5-7

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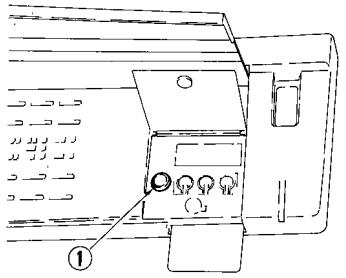
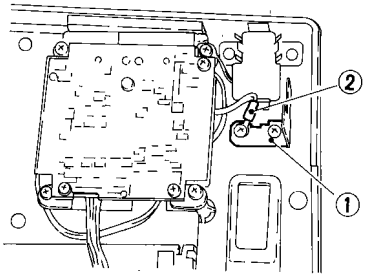
- Check that the connector for the printer is centered over the hole.



① Connector for printer

Figure 5-8

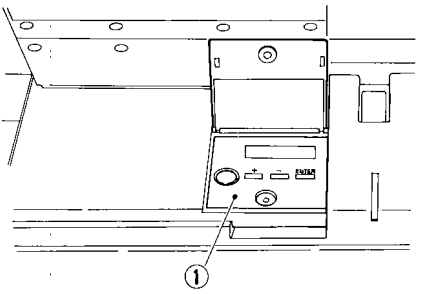
11) Fix the grounding wire of Control Card V to the metal fixing using the screw (M3×10) that comes with the unit.



① Metal fixing
② Grounding wire

Figure 5-9

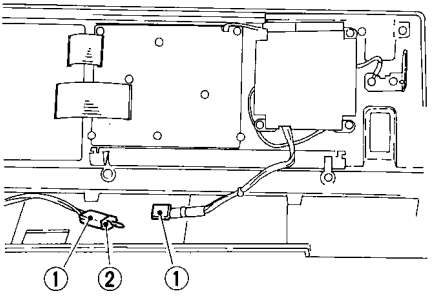
12) Detach the protection sheet from the operation guide of Control Card V.
13) Attach the operation guide of Control Card V to the copier's control panel.



① Operation guide

Figure 5-10

14) Attach the control panel to the copier.
15) Attach the transparent sheet removed in step 4).
16) Disconnect the shorting connector shown in Figure 5-11.
17) Connect the 4P connector of Control Card V and the 4P connector of the copier.



① 4P connector ② Shorting connector

Figure 5-11

18) Switch the copier ON, and check the operation of Control Card V.
19) Attach the inside right cover.

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I. PERIODICALLY REPLACED PARTS

Some parts of the machine must be replaced on a periodically basis to maintain the machine's original performance; replace them as shown even if they do not show signs of wear or damage. Arrange the replacement so that it coincides with a scheduled visit.

as of JAN. 1993

No.	Parts name	Parts No.	Q'ty	Estimated life (copies)	Remarks
1	Corona wire (primary, pre-transfer, transfer, separation)	FY3-0030-000	—	60,000	100V
		FY3-0040-000	—	60,000	115/230V
2	Pre-transfer corona assembly	FG1-8040-040	1	120,000	to prevent leakage to block.
3	Ozone filter (heat exhaust fan)	FB1-5681-000	1	210,000	or 1 yr.
4	Ozone filter (feeder fan)	FB1-6044-000	1	210,000	or 1 yr.
5	Filter (scanner cooling fan)	FA5-3010-000	1	210,000	or 1 yr.

The values above are estimates only and subject to change based on field data.

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II. DURABLE PARTS

Some parts of the machine may become worn or damaged over the machine's warranty period; replace them as necessary.

A. Copier

as of JAN. 1993

No.	Parts name	Parts No.	Q'ty	Estimated life (copies)	Remarks
1	Scanning lamp	FH7-3246-000	1	120,000	100/115V
		FH7-3247-000	1	120,000	230V
2	Pick-up roller (pick-up assembly)	FA5-2854-020	4	120,000	
3	Feeder roller (pick-up assembly)	FA5-2933-000	2	120,000	
4	Separation roller (pick-up assembly)	FA5-2867-000	2	120,000	
5	Drum separation claw	FA3-8577-030	4	120,000	
6	Transfer/Separation corona wire cleaner	FF5-0940-000	1	120,000	
7	Lower roller cleaner (fixing assembly)	FF2-0175-020	1	120,000	
8	Lower roller (fixing assembly)	FB1-5921-000	1	210,000	
9	Upper separation claw (fixing assembly)	FA9-0451-000	4	210,000	
10	Lower separation claw (fixing assembly)	FA2-9037-000	4	210,000	
11	Insulating bushing (fixing assembly)	FB1-5928-000	2	210,000	
12	Cleaning belt (fixing assembly)	FA3-8908-000	1	300,000	depends on length of copy paper.
13	Pre-exposure lamp	FH7-3232-000	1	210,000	
14	Registration roller (lower)	FA5-3120-000	1	300,000	
15	Developing cylinder (black developing assembly)	FA5-2594-000	1	300,000	
16	Developing drive gear (black developing assembly)	FS3-0041-000	1	300,000	
17	Upper roller (fixing assembly)	FB1-5948-000	1	510,000	

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No.	Parts name	Parts No.	Q'ty	Estimated life (copies)	Remarks
18	Halogen heater (fixing assembly)	FH7-4255-000	1	510,000	100V
		FH7-4256-000	1	510,000	115V
		FH7-4297-000	1	510,000	230V
19	Scanner drive cable	FB1-6086-000	1	510,000	
20	Ball bearing (upper fixing roller)	XG9-0181-000	2	510,000	
21	Ball bearing (lower fixing roller)	XG9-0208-000	2	510,000	
22	Oil pad (front)	FA5-3215-000	1	510,000	Impregnate with oil (CK-0451); make sure the oil will not drip.
23	Oil pad (rear)	FA5-3216-000	1	510,000	
24	Lower feed roller (rower)	FB1-5975-030	1	510,000	

The values above are estimates only and subject to change based on field data.

B. Cassette Feeding Unit

as of JAN. 1993

No.	Parts name	Parts No.	Q'ty	Estimated life (copies)	Remarks
1	Pick-up roller	FA5-2854-020	4	120,000	
2	Feeder roller	FA5-2933-000	2	120,000	
3	Separation roller	FA5-2867-000	2	120,000	

The values above are estimates only and subject to change based on field data.

C. Paper Deck Pedestal

as of JAN. 1993

No.	Parts name	Parts No.	Q'ty	Estimated life (copies)	Remarks
1	Pick-up roller	FA5-2854-020	4	120,000	
2	Feeder roller	FL9-0015-000	2	120,000	
3	Separation roller	FL9-0010-000	2	120,000	

The values above are estimates only and subject to change based on field data.

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III. PERIODICAL SERVICING

Note:
i. As a rule, go over the steps every 300,000 copies.
ii. Check the Service Work Sheet before each visit; take replacement parts if replacement is expected.

No.	Work	Checks	Remarks
1	Meet the person in charge.	Check the general condition.	
2	Record the counter reading.	Check the faulty copies.	
3	Make test copies: DIRECT, REDUCE, ENLARGE, page separation, two-sided, overlay	Check the following: a. density of image b. dirt on background c. clarity of characters d. margin along leading edge e. margin on left/right f. fixing, blurring, soiling (back) g. abnormal noise h. counter operation	standards: 2.5 ± 1.5 mm (DIRECT) standards: 2.0 ± 1.0 mm (DIRECT)
4	Clean the pre-transfer corona assembly; do NOT clean the primary, transfer, and separation corona assembly.		Dry wipe the assembly; then, use alcohol solution.
5	Clean the transfer guide.		Detach the drum unit.
6	Clean the separation/feeder assembly. • separation claw • feeder belt • duplexing unit feeder guide.		Attach the drum unit after cleaning.
7	Clean the fixing/delivery assembly. • paper guide • separation claw (upper, lower) • cleaning belt (check)		Use cleaning oil. (TKN-0464)
8	Perform periodical servicing according to the number of copies made.		
9	Clean the copyboard cover and the copyboard glass.		Use alcohol.
10	Make test copies.		
11	Make sample copies.		

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No.	Work	Checks	Remarks
12	Put the sample copies in order, and clean up the area.		
13	Record the counter reading.		
14	Fill out the Service Sheet, and report to the person in charge.		

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IV. PERIODICAL SERVICING CHART

Note:
Do not use solvents and oils other than those specified.

△: Clean ●: Replace ×: Oil □: Adjust ◎: Inspect

Unit	Parts	Maintenance intervals					Remarks
		every 30,000	every 60,000	every 120,000	every 210,000	every 510,000	
Externals	Copyboard glass	△					
	Ozone filter				●		or 1 yr.
	Scanner fan filter				●		
Scanner drive assembly	Scanner rail			△×			Clean it using alcohol solution; then, apply oil (TKN-0451).
Transfer/ Separation/ Feeder assembly	Transfer guide plate (upper, lower)	△					Use a moist cloth.
	Transfer/Separation corona assembly rail	△					
	Feeder belt, Feeder Guide plate	△					
Scanner	No.1 through No.6 mirrors	△					Use a blower brush; if necessary, use alcohol solution.
	Dust-proof glass	△					
	Lens	△					Use a blower brush.
	Reflector for scanning lamp	△					
	Side reflector for scanning lamp	△					
Corona assembly	Primary corona assembly	△					Do NOT clean the primary corona wire.
	Pre-transfer corona assembly	△		●			Dry wipe it using lint-free paper; then, use alcohol solution. Do NOT use water.
	Primary corona assembly grid wire	△					
	Shield plate, Block (primary, pre-transfer, transfer, separation)	△					
	Corona wire (primary, pre-transfer, transfer, separation)		●				Do NOT clean the corona wires.
Fixing assembly	Upper/Lower roller	△					Use cleaning oil (TKN-0464)
	Separation claw	△					Use solvent.
	Papter guide	△					

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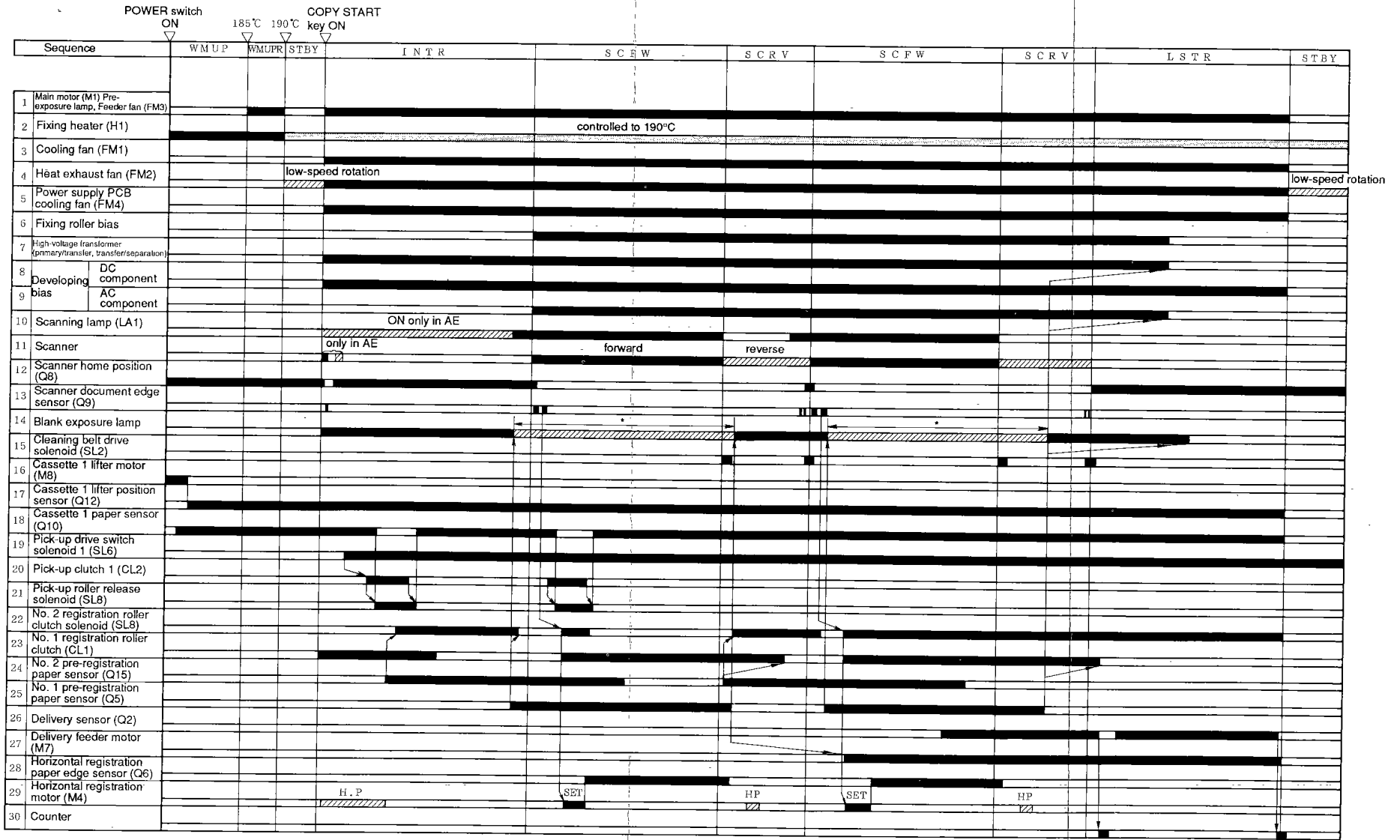
A. GENERAL TIMING CHART

(A4, 2 copies; DIRECT, one-sided document to one-sided copy; pick-up from 1st cassette)



* *Varies dependingon the selected copy mode.*

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B. LIST OF SIGNALS/COMMANDS

1. SIGNALS/COMMANDS

AE	AE SENSOR OUTPUT SIGNAL (ANALOG)
BTEP	BLACK TONER OUT SIGNAL
BTSP	BLACK TONER SUPPLY SIGNAL
BUSY	BUSY SIGNAL
C1LTMD	CASSETTE 1 LIFTER MOTOR DRIVE COMMAND
C2LTMD	CASSETTE 2 LIFTER MOTOR DRIVE COMMAND
C3LTMD	CASSETTE 3 LIFTER MOTOR DRIVE COMMAND
C4LTMD	CASSETTE 4 LIFTER MOTOR DRIVE COMMAND
C1LTP	CASSETTE 1 LIFTER POSITION SIGNAL
C2LTP	CASSETTE 2 LIFTER POSITION SIGNAL
C3LTP	CASSETTE 3 LIFTER POSITION SIGNAL
C4LTP	CASSETTE 4 LIFTER POSITION SIGNAL
C1PD	CASSETTE 1 PAPER DETECTION SIGNAL
C2PD	CASSETTE 2 PAPER DETECTION SIGNAL
C3PD	CASSETTE 3 PAPER DETECTION SIGNAL
C4PD	CASSETTE 4 PAPER DETECTION SIGNAL
CBCC	COPYBOARD COVER CLOSED SIGNAL
CCD	CONTROL COUNTER DRIVE COMMAND
CCDT	CONTROL COUNTER DETECTION SIGNAL
CLBSD	CLEANING BELT DRIVE SOLENOID DRIVE COMMAND
CNT1D	COUNTER 1 DRIVE COMMAND
CNT2D	COUNTER 2 DRIVE COMMAND
CRGA	CROSS FEED REGISTRATION MOTOR DRIVE PULSE COMMAND A
CRGB	CROSS FEED REGISTRATION MOTOR DRIVE PULSE COMMAND B
CRGSTB	CROSS FEED REGISTRATION MOTOR STROBE SIGNAL
DFA	DELIVERY FEED MOTOR DRIVE PULSE COMMAND A
DFB	DELIVERY FEED MOTOR DRIVE PULSE COMMAND B
DKMD	DECK MOTOR DRIVE COMMAND
DLEDD1	DOCUMENT SIZE DETECTION LED DRIVE COMMAND 1
DLEDD2	DOCUMENT SIZE DETECTION LED DRIVE COMMAND 2
DLEDD3	DOCUMENT SIZE DETECTION LED DRIVE COMMAND 3
MMD	MAIN MOTOR DRIVE COMMAND
DSZ1	DOCUMENT SIZE DETECTION SIGNAL 1 (ANALOG)
DSZ2	DOCUMENT SIZE DETECTION SIGNAL 2 (ANALOG)
DSZ3	DOCUMENT SIZE DETECTION SIGNAL 3 (ANALOG)
FM1D	SCANNER INTAKE FAN (FM1) DRIVE COMMAND
FM2D	EXHAUST FAN (FM2) DRIVE COMMAND
FM3D	FEED FAN (FM3) DRIVE COMMAND
FM4D	POWER SUPPLY PCB COOLING FAN (FM4) DRIVE COMMAND
FM4ON	POWER SUPPLY PCB COOLING FAN (FM4) ON SIGNAL
FRST	FIXING ROLLER SURFACE TEMPERATURE SIGNAL (ANALOG)
HMD	HOPPER MOTOR DRIVE COMMAND
HTRD	HEATER DRIVE COMMAND
HVAC	AC TRANSFORMER DRIVE COMMAND
HVBAC	AC DEVELOPING BIAS DRIVE COMMAND
HVBDC	DC DEVELOPING BIAS CONTROL COMMAND (ANALOG)
HVGB	GRID BIAS CONTROL COMMAND (ANALOG)
HVPR	PRIMARY CORONA CURRENT CONTROL COMMAND (ANALOG)
HVPT	PRE-TRANSFER CORONA CURRENT CONTROL COMMAND (ANALOG)
HVSP	SEPARATION CORONA CURRENT CONTROL COMMAND (ANALOG)
HVTR	TRANSFER CORONA CURRENT CONTROL COMMAND (ANALOG)
LAON	SCANNING LAMP ON SIGNAL
LDDE	LEFT DECK DETECT COMMAND
LHP	LENS HOME POSITION SIGNAL
LINT	LIGHT INTENSITY SIGNAL (ANALOG)
LLDR	LEFT LIFTER CLUTCH DRIVE COMMAND
LLPDE	LEFT LIFTER POSITION DETECT SIGNAL
LLUL	LEFT LIFTER UPPER LIMIT SIGNAL
LNA	LENS MOTOR DRIVE PULSE COMMAND A
LNB	LENS MOTOR DRIVE PULSE COMMAND B
LNSTB	LENS MOTOR STROBE SIGNAL
LPADE	LEFT PAPER DETECT SIGNAL
LPPDE	LEFT PAPER PATH PAPER DETECTION SIGNAL
LPPDR	LEFT PAPER PATH CLUTCH DRIVE COMMAND
LPUDR	LEFT PAPER PICK-UP CLUTCH DRIVE COMMAND
LPURL	LEFT PAPER PICK-UP ROLLER RELEASE SOLENOID COMMAND
LRD	LAMP REGULATOR DRIVE COMMAND
LTDWN	LIFTER DOWN COMMAND
LF1A	LOWER FEED MOTOR 1 DRIVE PULSE COMMAND A
LF1B	LOWER FEED MOTOR 1 DRIVE PULSE COMMAND B
LF1STB	LOWER FEED MOTOR 1 STROBE SIGNAL
LF2A	LOWER FEED MOTOR 2 DRIVE PULSE COMMAND A
LF2B	LOWER FEED MOTOR 2 DRIVE PULSE COMMAND B
LF2STB	LOWER FEED MOTOR 2 STROBE SIGNAL
M2CLK	SCANNER MOTOR (M2) CLOCK SIGNAL
M2LK	SCANNER MOTOR (M2) PLL LOCK SIGNAL
MFDC	MANUAL FEED DOOR CLOSED SIGNAL
MFPD	MANUAL FFED PAPER DETECTION SIGNAL
MFSSD	MANUAL FEED SHUTTER SOLENOID DRIVE COMMAND
PCLHP	PRIMARY CORONA WIRE CLEANER HP SIGNAL
PCLMF	PRIMARY CORONA WIRE CLEANER FW COMMAND
PCLMR	PRIMARY CORONA WIRE CLEANER RV COMMAND
PCLRP	PRIMARY CORONA WIRE CLEANER RP SIGNAL
RDP	PAPER DETECTION SIGNAL
RDP1	PAPER DETECTION SIGNAL 1
RDP2	PAPER DETECTION SIGNAL 2
RDP3	PAPER DETECTION SIGNAL 3
RDP4	PAPER DETECTION SIGNAL 4
RDP5	PAPER DETECTION SIGNAL 5
RDP6	PAPER DETECTION SIGNAL 6
RDP7	PAPER DETECTION SIGNAL 7
RDP8	PAPER DETECTION SIGNAL 8
PDPD	PAPER DETECTION SIGNAL
PEXP	PRE-CONDITIONING EXPOSURE LAMP LIT COMMAND
PRSD1	PICK-UP ROLLER RELEASE SOLENOID 1 DRIVE COMMAND
PRSD2	PICK-UP ROLLER RELEASE SOLENOID DRIVE COMMAND
PSSD1	PICK-UP DRIVE SELECT SOLENOID 1 DRIVE COMMAND
PSSD2	PICK-UP DRIVE SELECT SOLENOID 2 DRIVE COMMAND
PUCD1	PICK-UP ROLLER CLUTCH 1 DRIVE COMMAND
PUCD2	PICK-UP ROLLER CLUTCH 2 DRIVE COMMAND
PUMD	PICK-UP ROLLER MOTOR DRIVE COMMAND
PWOFF	POWER SWITCH OFF COMMAND
RDDE	RIGHT DECK DETECTION SIGNAL
RGCD1	REGISTRATION ROLLER 1 CLUTCH DRIVE COMMAND
RGCD3	REGISTRATION ROLLER 3 CLUTCH DRIVE COMMAND
RGCD2	REGISTRATION ROLLER 2 CLUTCH SOLENOID DRIVE COMMAND
RGSD4	REGISTRATION ROLLER 4 CLUTCH SOLENOID DRIVE COMMAND
RLDC	RIGHT LOWER DOOR CLOSED SIGNAL
RLDR	RIGHT LIFTER CLUTCH DRIVE COMMAND
RLPDE	RIGHT LIFTER POSITION DETECTION SIGNAL
RLUL	RIGHT LIFTER UPPER LIMIT SIGNAL
RPADE	RIGHT PAPER DETECTION SIGNAL
RPUDR	RIGHT PAPER PICK-UP CLUTCH DRIVE COMMAND
SPURL	RIGHT PAPER PICK-UP ROLLER RELEASE SOLENOID COMMAND
SCCLK	SCANNER SPEED CONTROL COMMAND
SCDP	SCANNER AT LEADING EDGE POSITION SIGNAL
SCFW	SCANNER FORWARD COMMAND
SCHP	SCANNER HOME POSITION SIGNAL
SCMD	SCANNER MOTOR DRIVE COMMAND
SDODE	SIDE DOOR DETECT SIGNAL
SRER	SSR ERROR SIGNAL
TCLMF	TRANSFER/SEPARATION CORONA WIRE CLEANER FW COMMAND
TCLMR	TRANSFER/SEPARATION CORONA WIRE CLEANER RV COMMAND
TWSCHP	TRANSFER/SEPARATION CORONA WIRE CLEANER HP SIGNAL
TSCRP	TRANSFER/SEPARATION CORONA WIRE CLEANER RP SIGNAL
WTOF	EXCESS WASTE TONER SIGNAL

2. LIST OF ABBREVIATIONS

INTR	INITIAL ROTATION
LSTR	LAST ROTATION
PFR	PAPER FEED ROTATION
SCFW	SCANNER FORWARD
SCRV	SCANNER REVERSE
STBY	STANDBY
WAIT	WAIT
WMUP	WARM UP
WMUPR	WARM UP ROTATION

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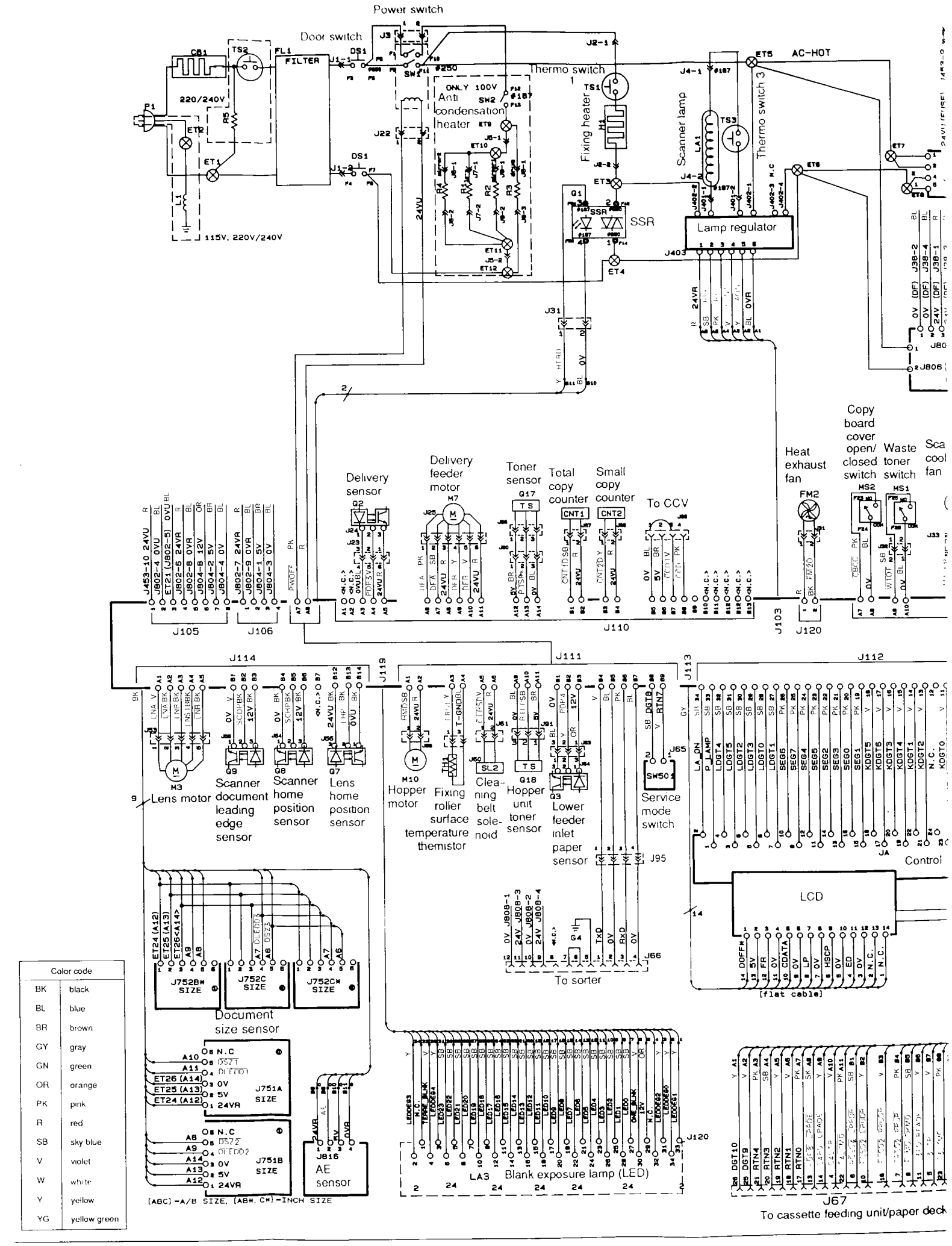
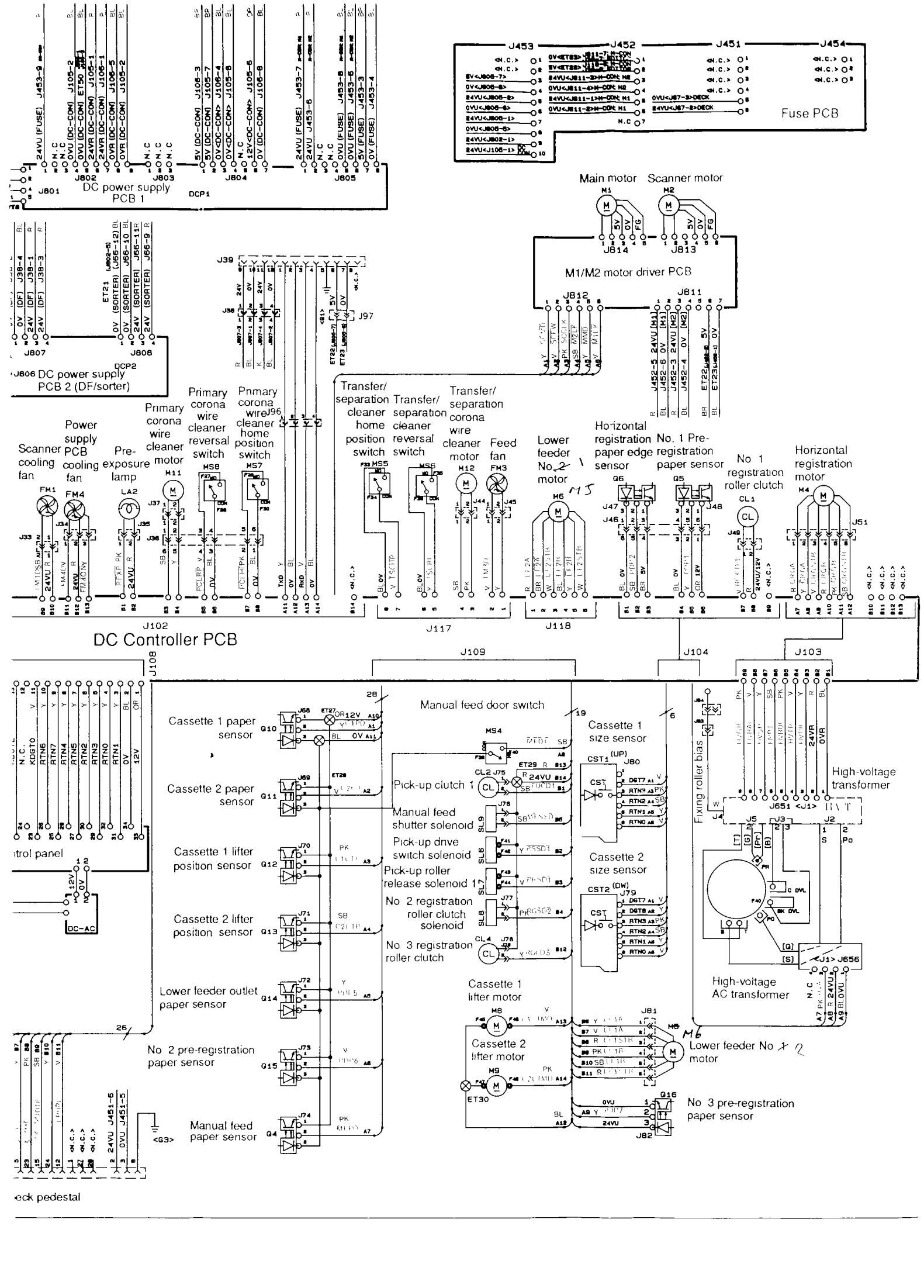
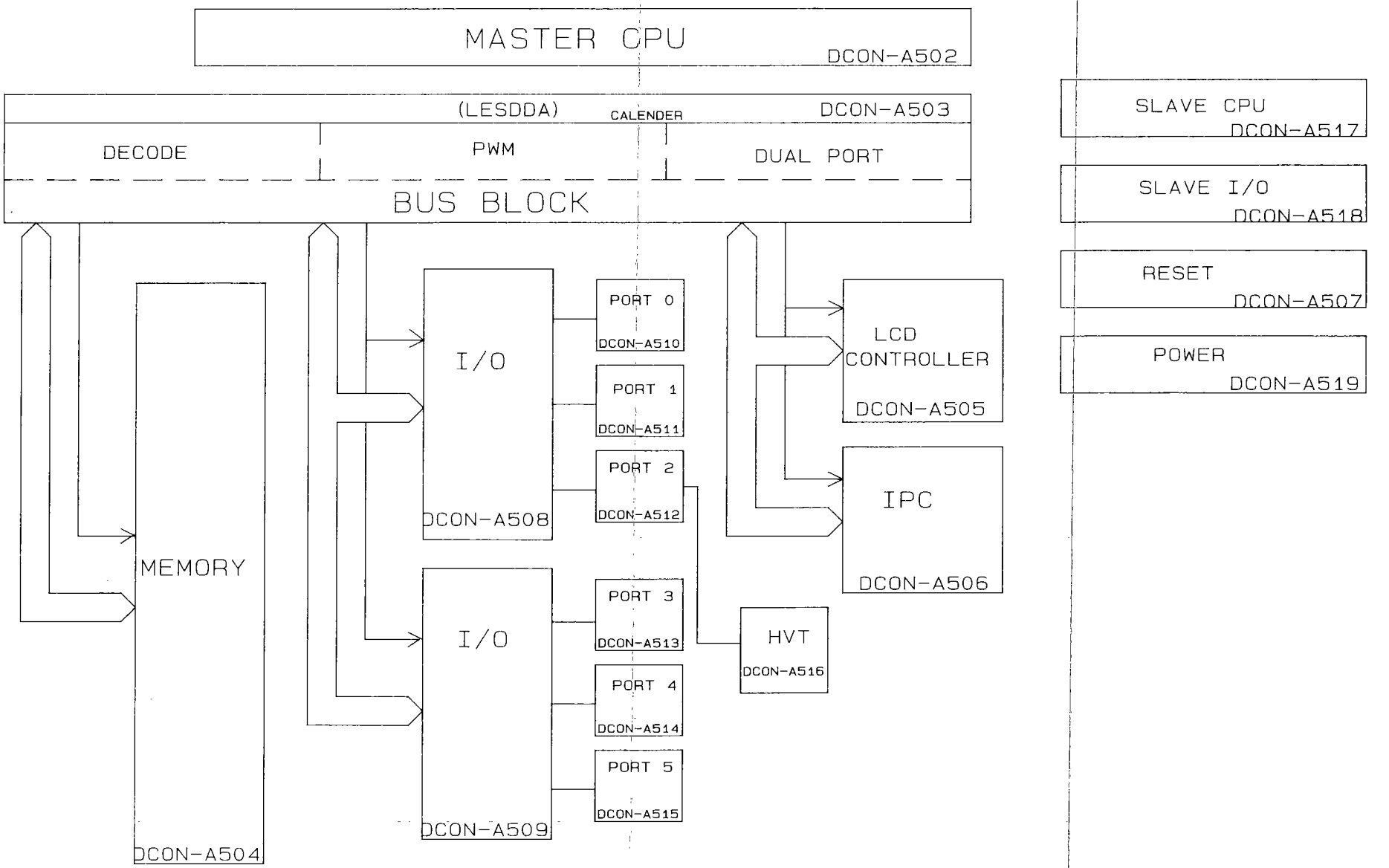


Color code	
BK	black
BL	blue
BR	brown
GY	gray
GN	green
OR	orange
PK	pink
R	red
SB	sky blue
V	violet
W	white
Y	yellow
YG	yellow green


J453
J452
J451
J454
Fuse PCB
DC power supply PCB 1
DCP1
J801
J802
J803
J804
J805
Main motor
Scanner motor
M1
M2
J814
J813
M1/M2 motor driver PCB
J812
J811
DC power supply PCB 2 (DF/sorter)
DCP2
J806
J807
J808
J39
J97
J96
Scanner cooling fan
Power supply PCB cooling fan
Pre-exposure lamp
Primary corona wire cleaner motor
Primary corona wire cleaner reversal switch
Primary corona wire cleaner home position switch
Transfer/ separation cleaner home position switch
Transfer/ separation cleaner reversal switch
Transfer/ separation corona wire cleaner motor
Feed fan
Lower feeder No.2 motor
Horizontal registration paper edge sensor
No. 1 Pre-registration paper sensor
No 1 registration roller clutch
Horizontal registration motor
FM1
FM4
LA2
M11
MS8
MS7
MS5
MS6
M12
FM3
M6
Q6
Q5
CL1
M4
J102
J117
J118
DC Controller PCB
J108
J109
J104
J103
Manual feed door switch
Cassette 1 paper sensor
Cassette 2 paper sensor
Cassette 1 lifter position sensor
Cassette 2 lifter position sensor
Lower feeder outlet paper sensor
No 2 pre-registration paper sensor
Manual feed paper sensor
Pick-up clutch 1
Manual feed shutter solenoid
Pick-up drive switch solenoid
Pick-up roller release solenoid
No 2 registration roller clutch solenoid
No 3 registration roller clutch
Cassette 1 size sensor
Cassette 2 size sensor
Cassette 1 lifter motor
Cassette 2 lifter motor
Lower feeder No 2 motor
No 3 pre-registration paper sensor
Fixing roller bias
High-voltage transformer
High-voltage AC transformer
DC-AC
trol panel
eck pedestal

D. DC CONTROLLER CIRCUIT DIAGRAM

DC CONTROLLER PCB (A501: Block diagram)



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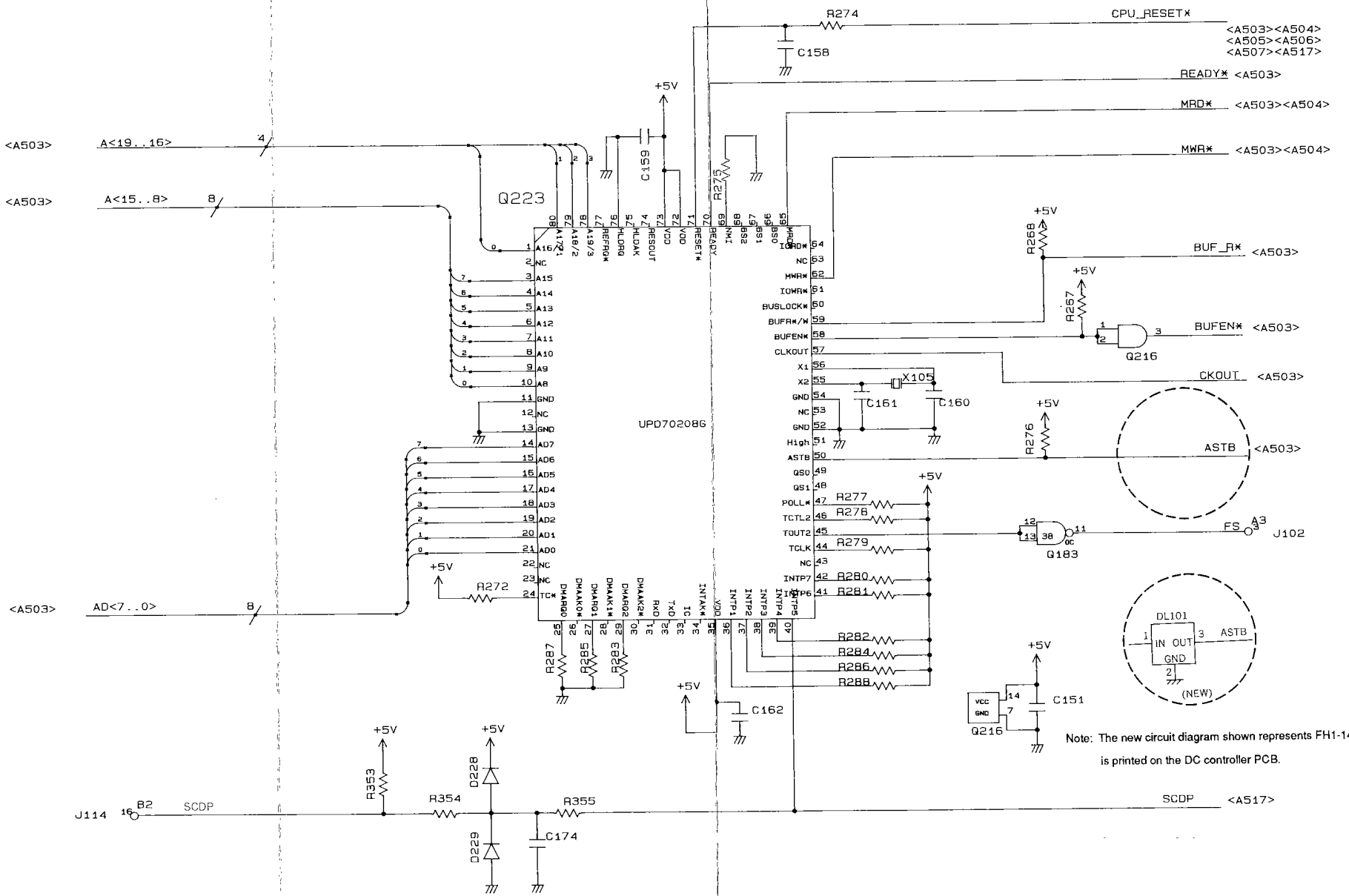

Note: The new circuit diagram shown represents FH1-1415 [05] and is printed on the DC controller PCB.

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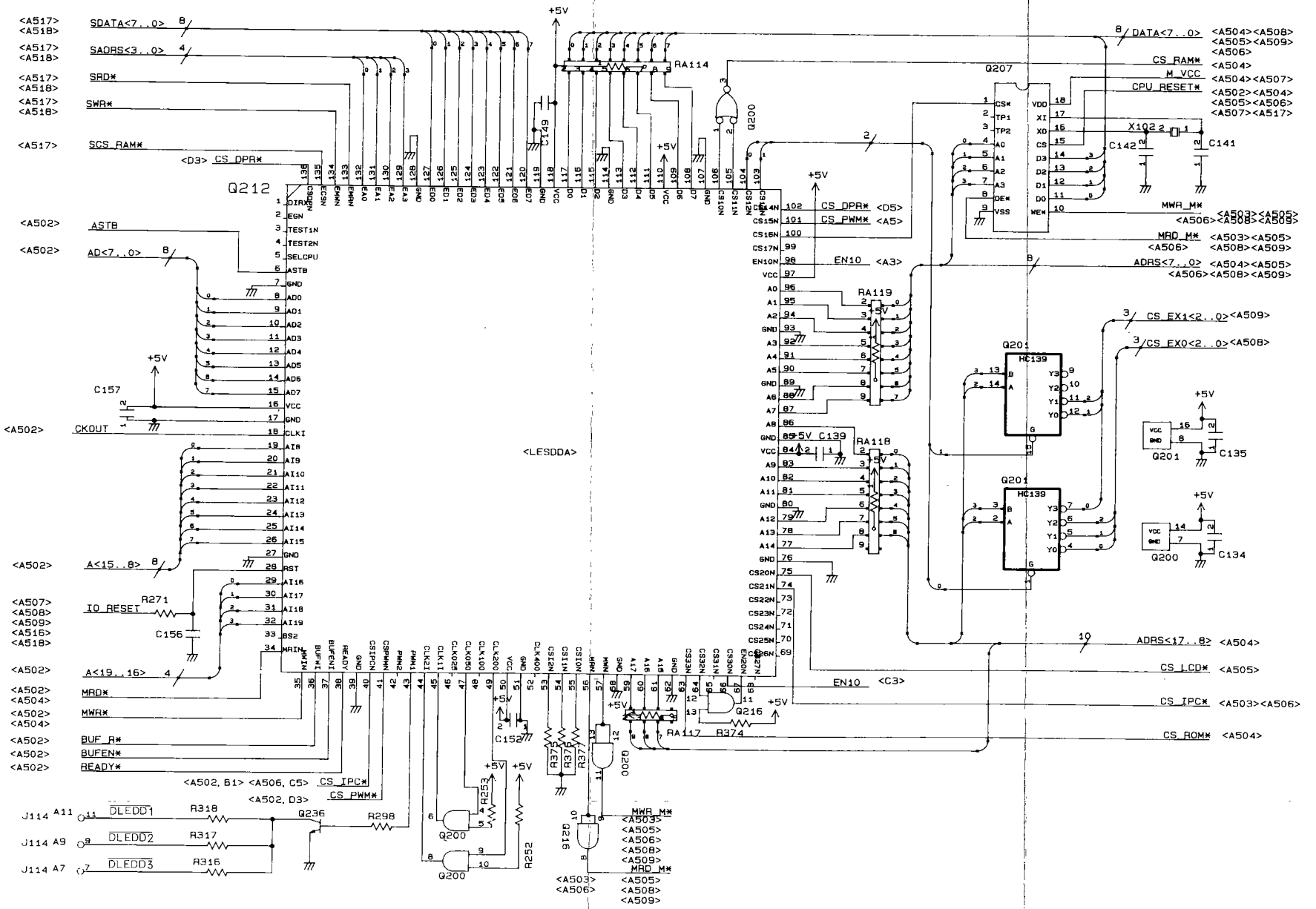

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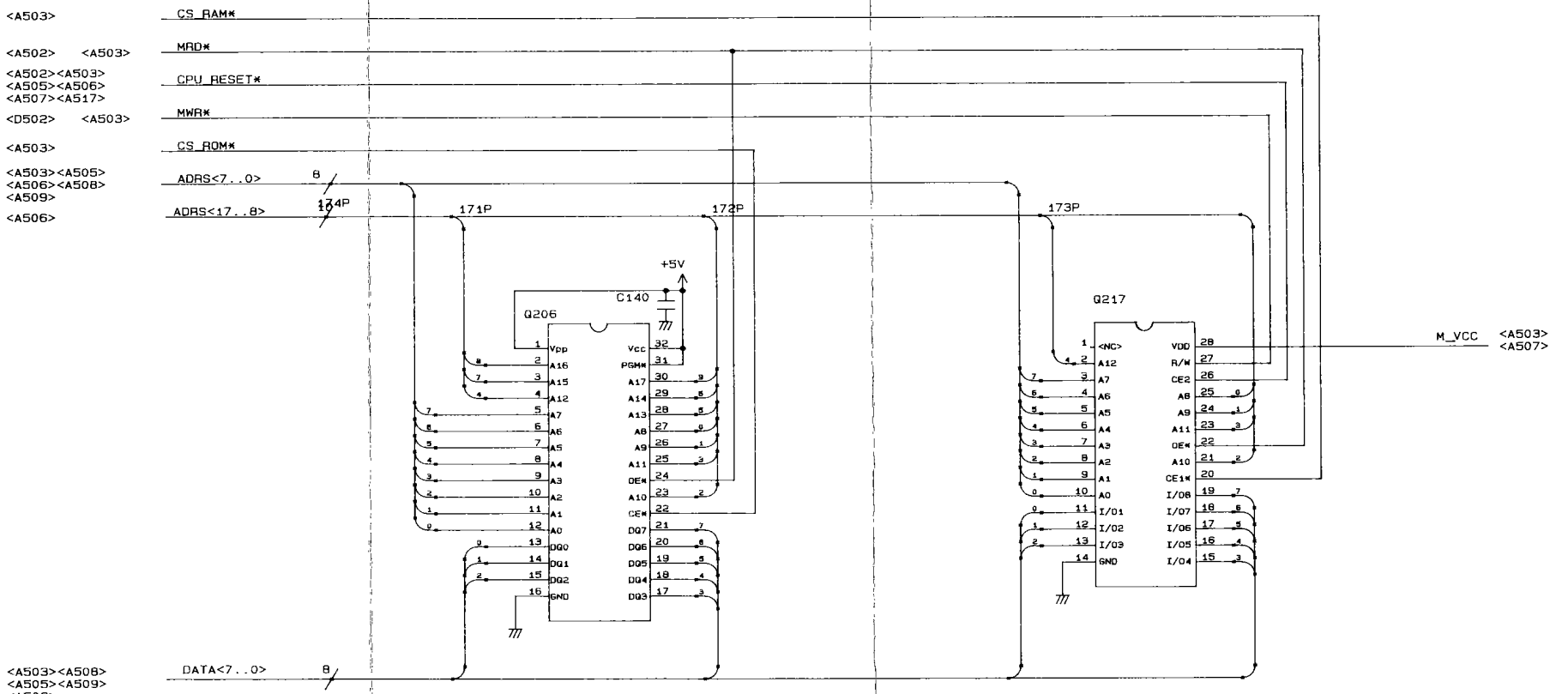

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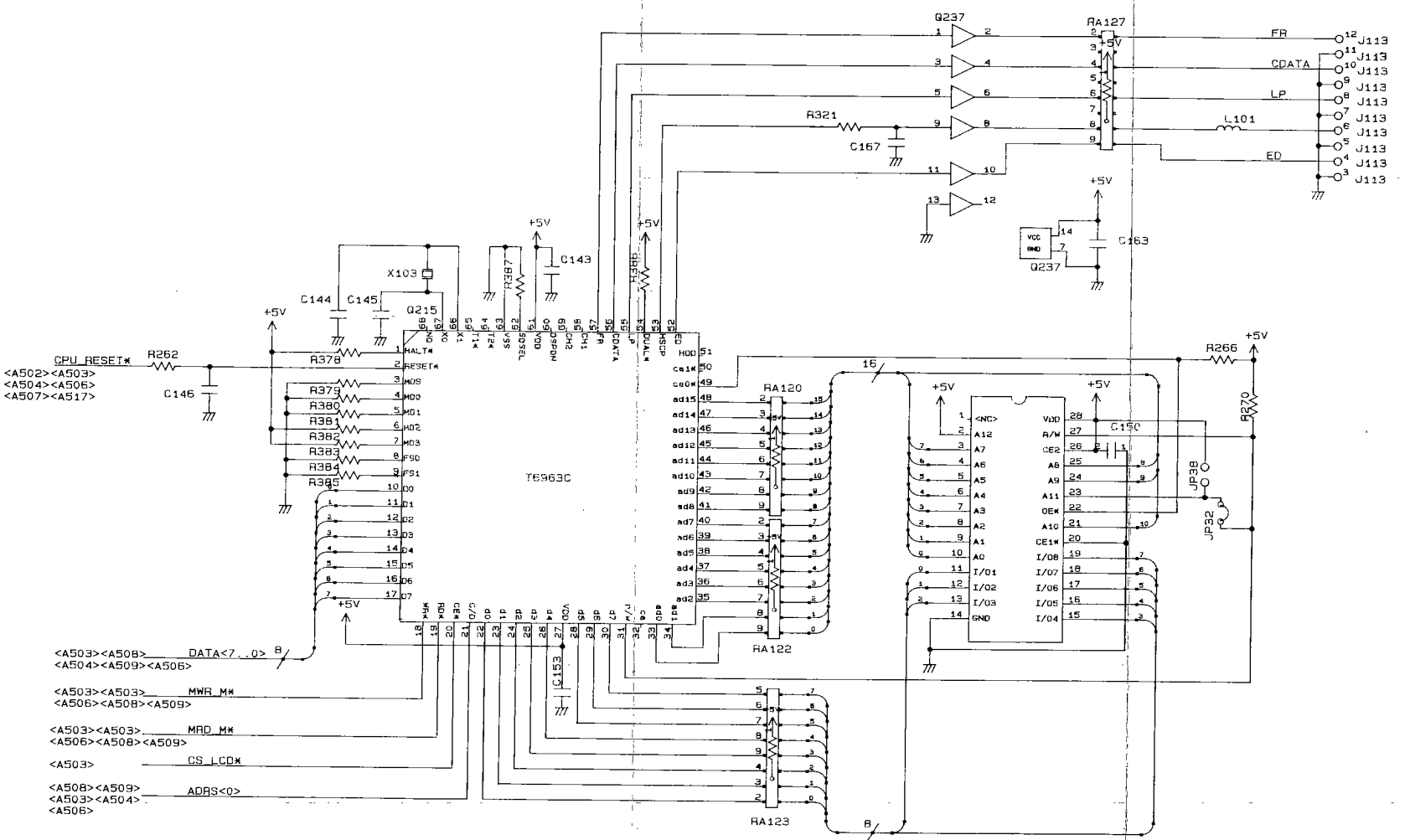

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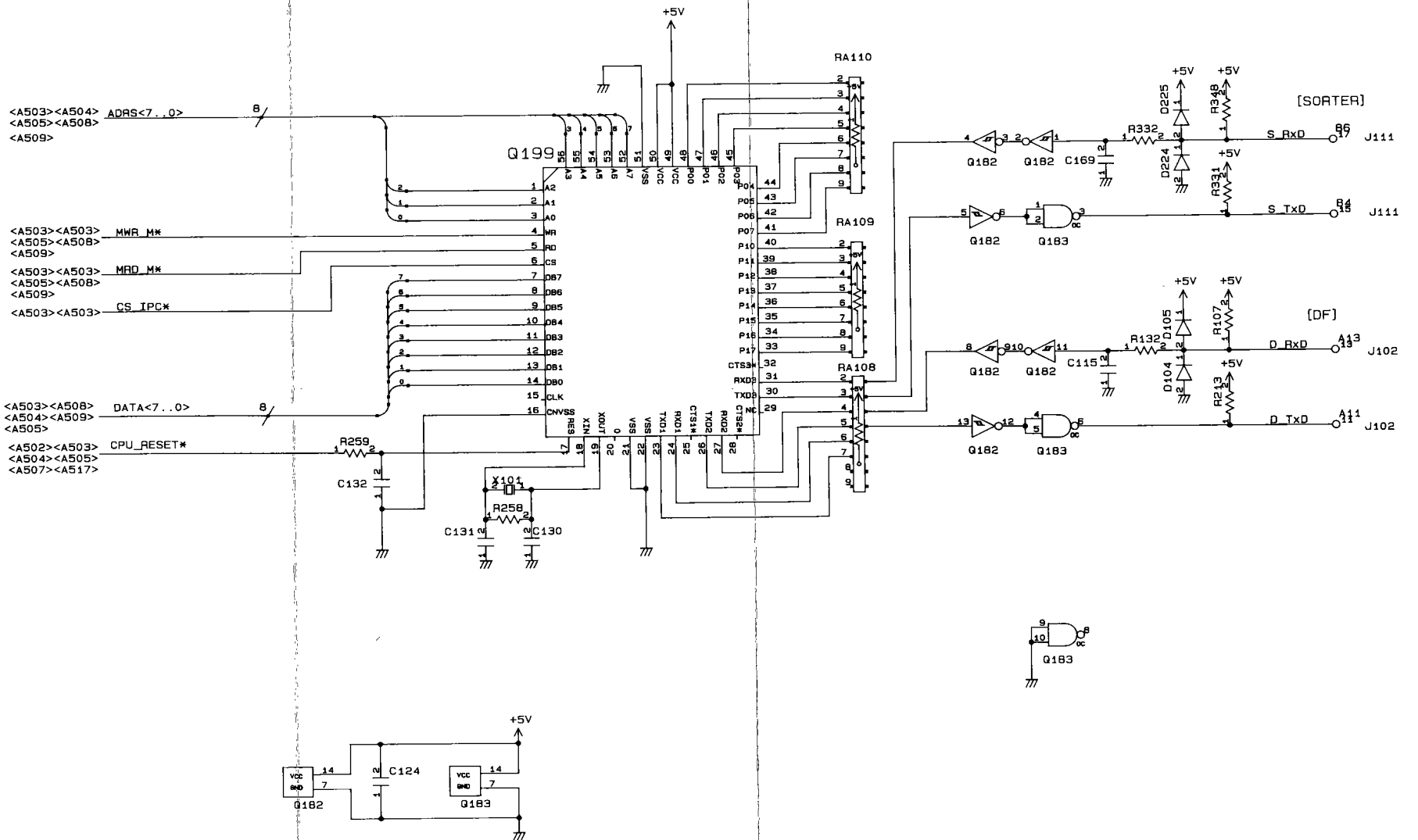

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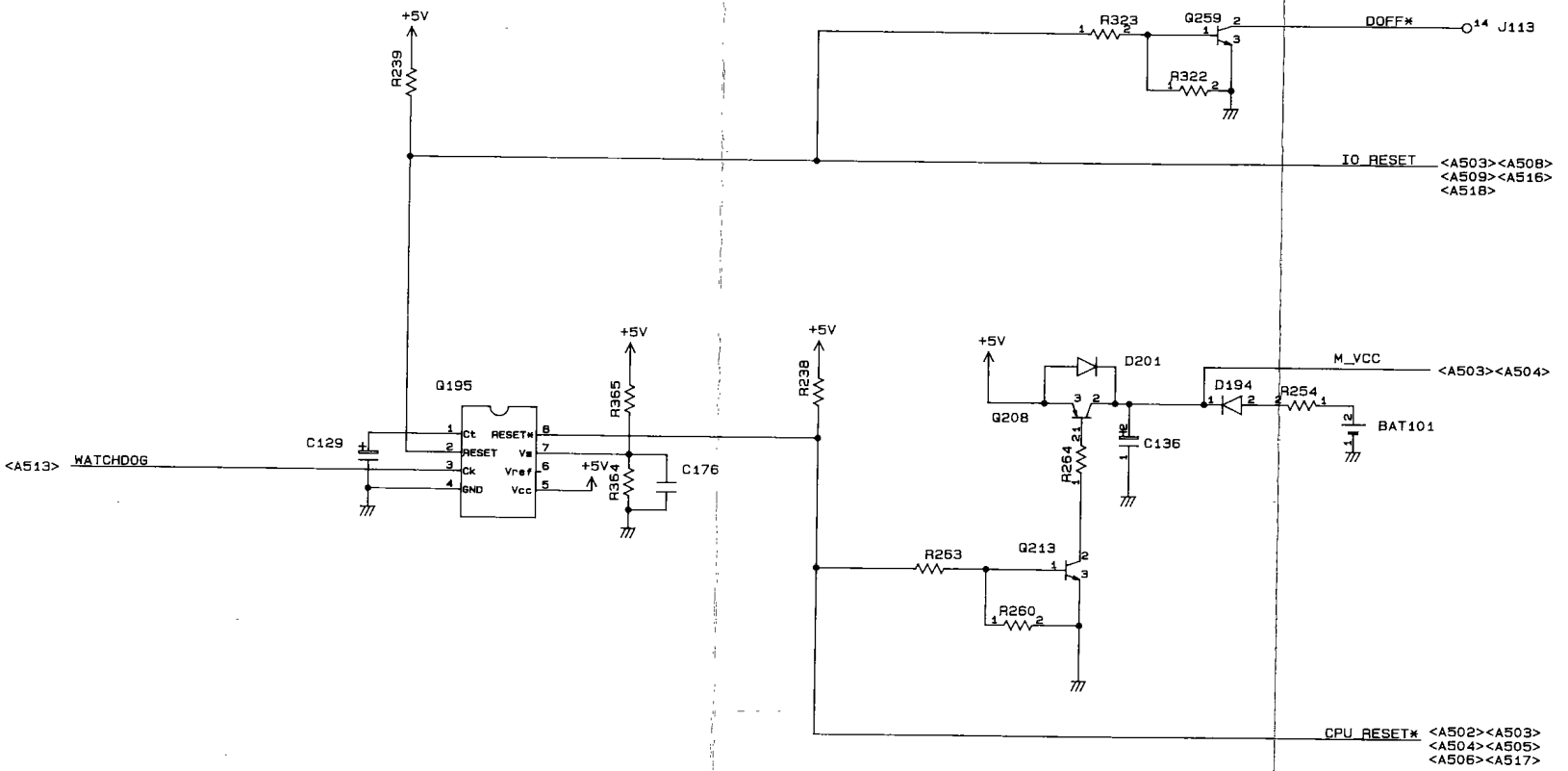

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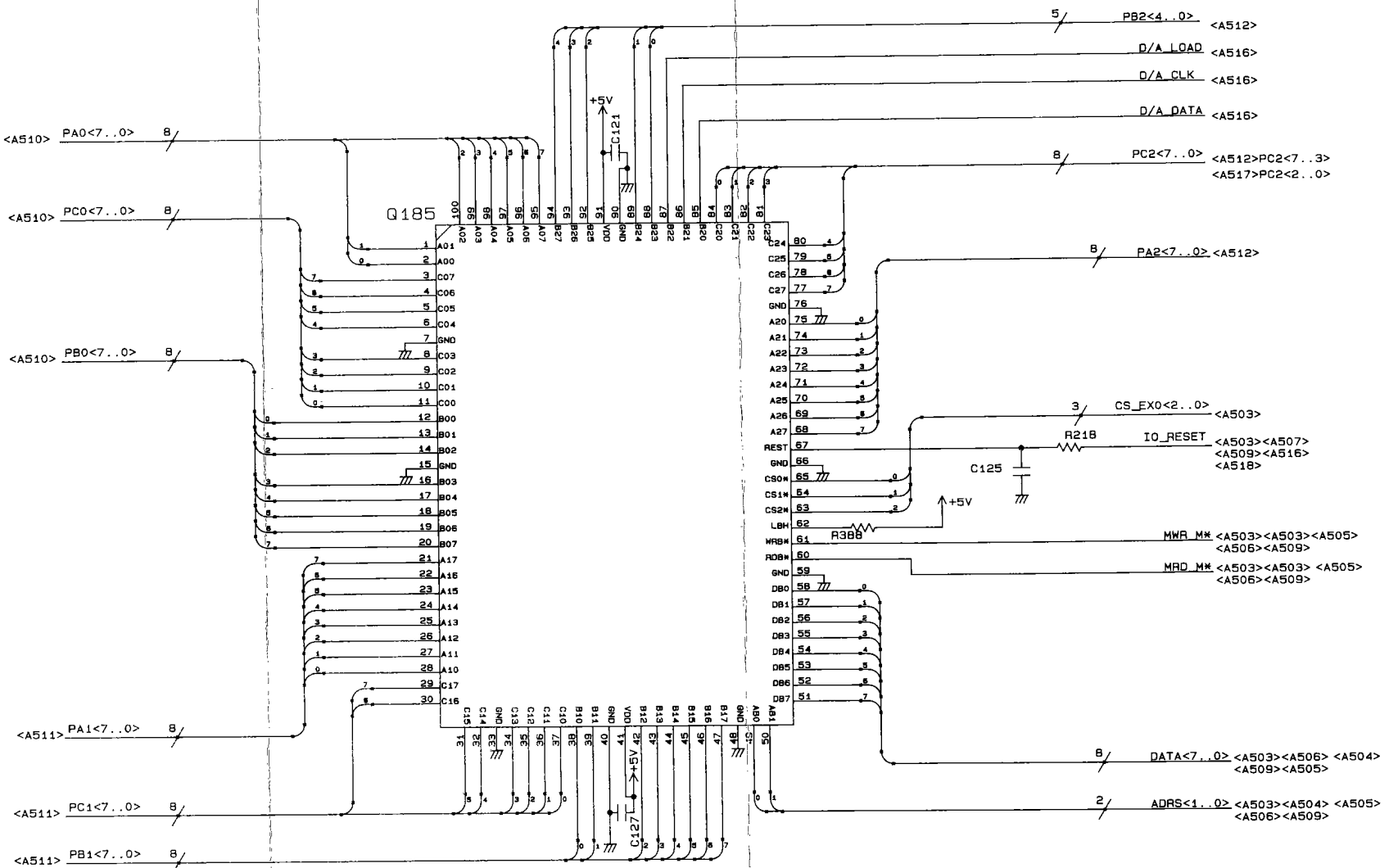

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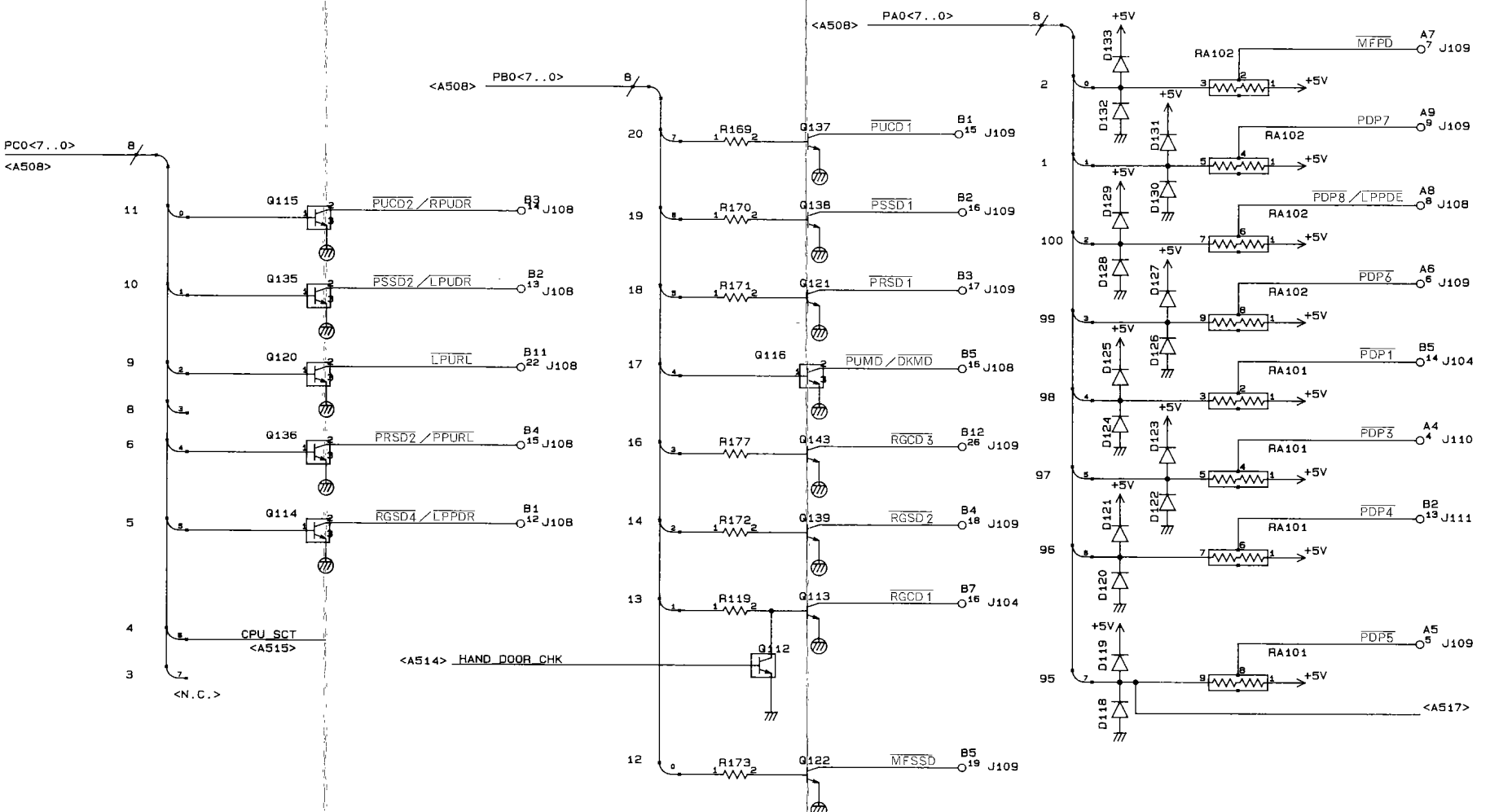

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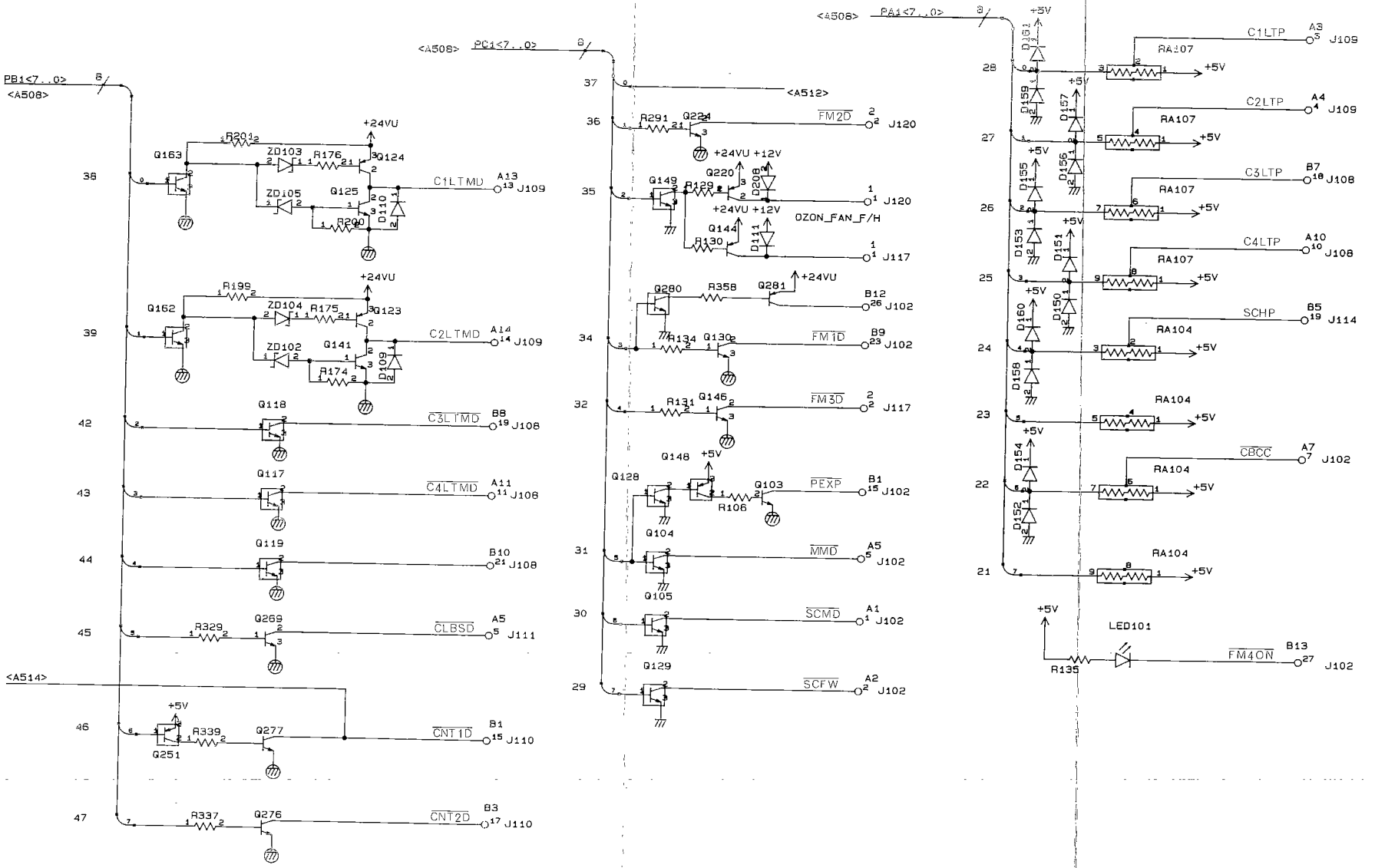

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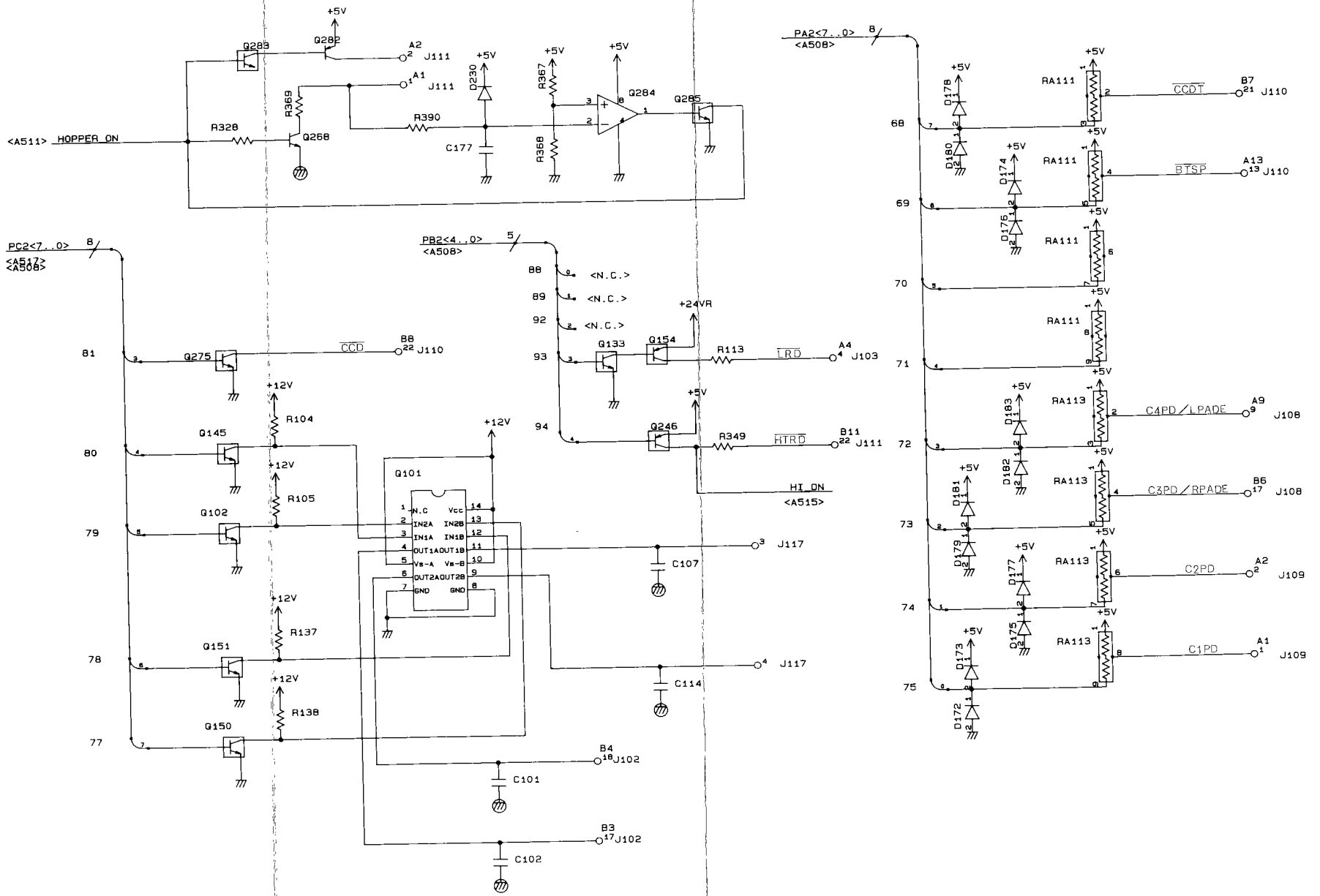

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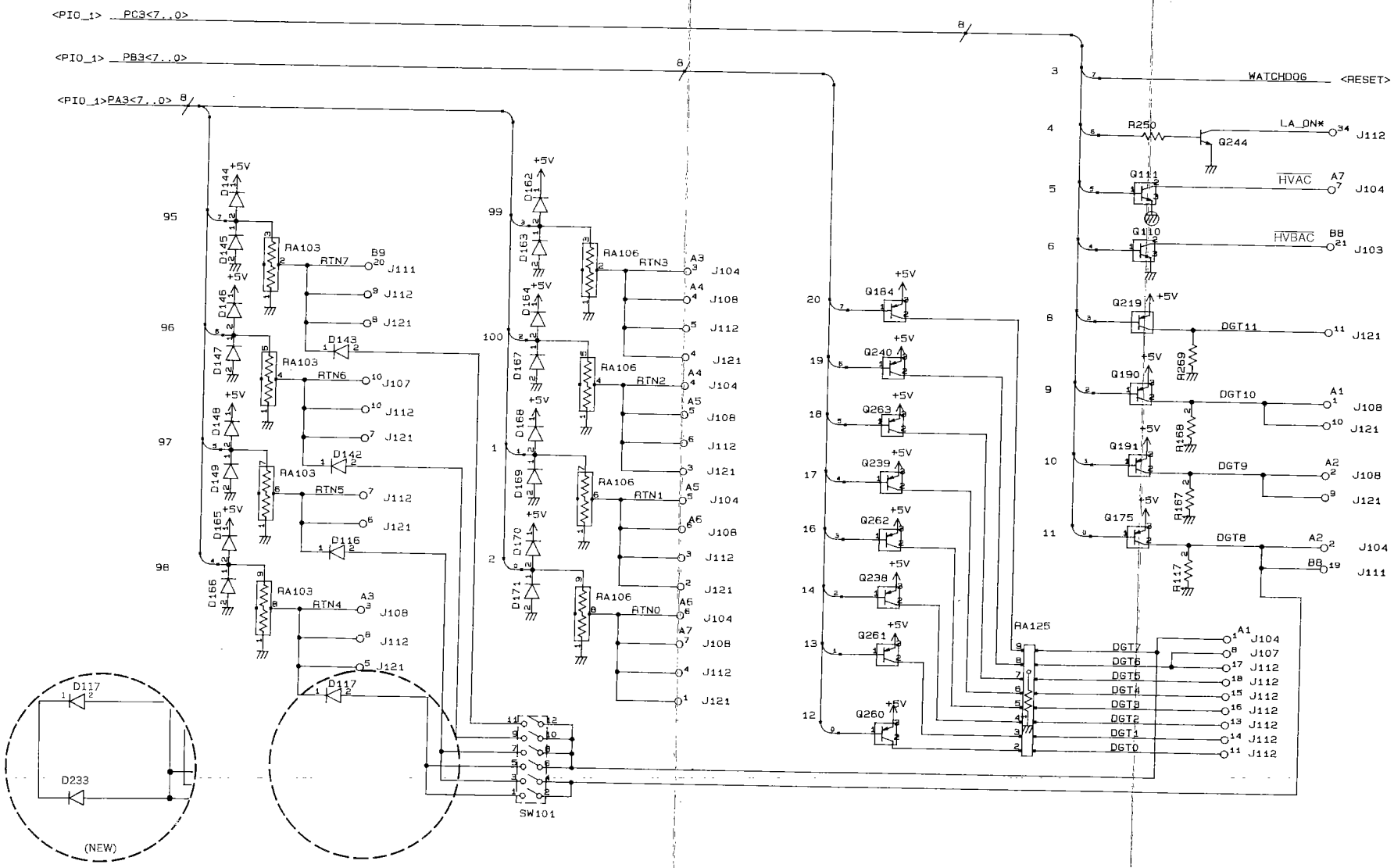

Note: The new circuit diagram shown represents FH1-1415 [05] and is printed on the DC controller PCB.

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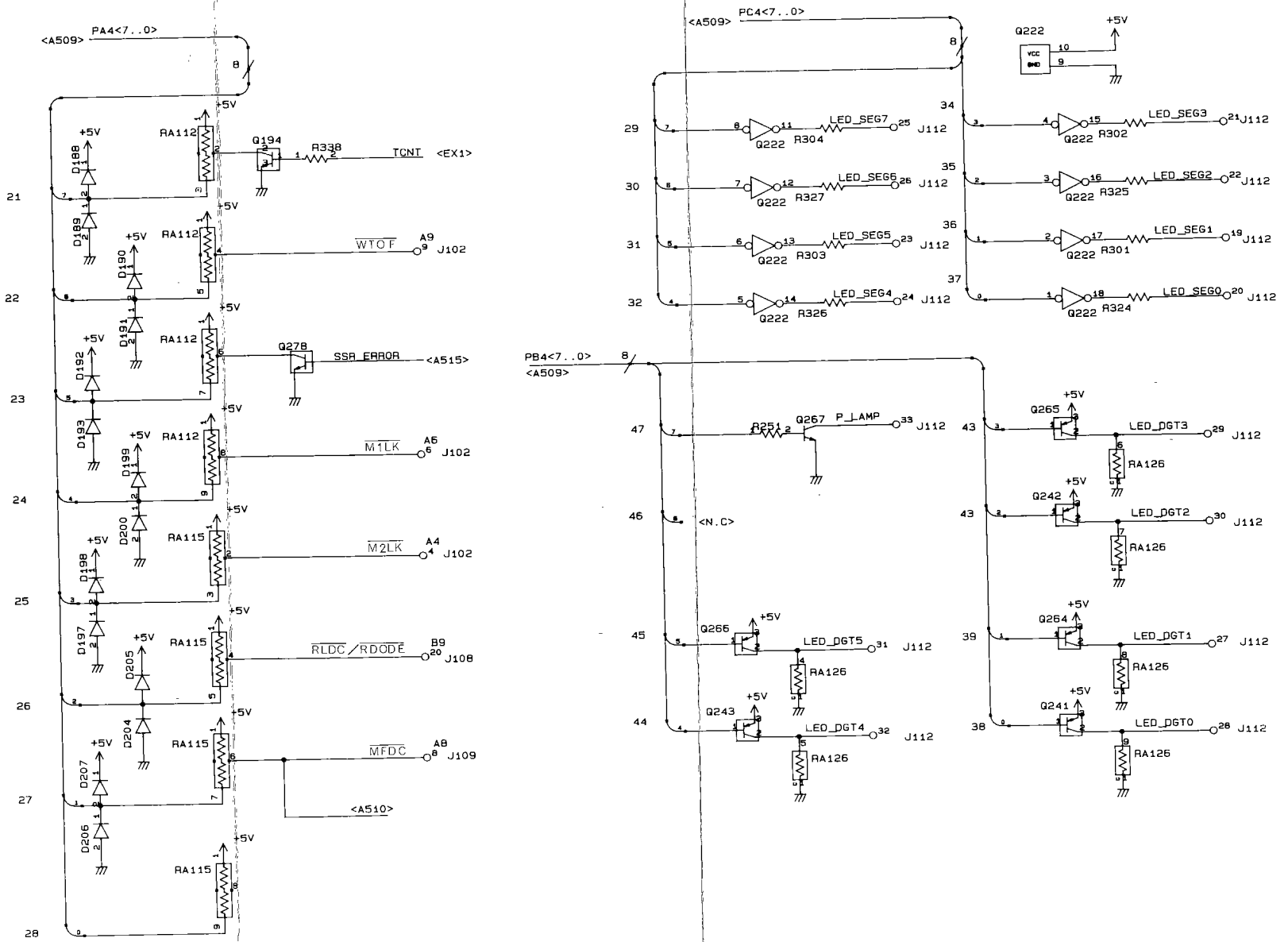

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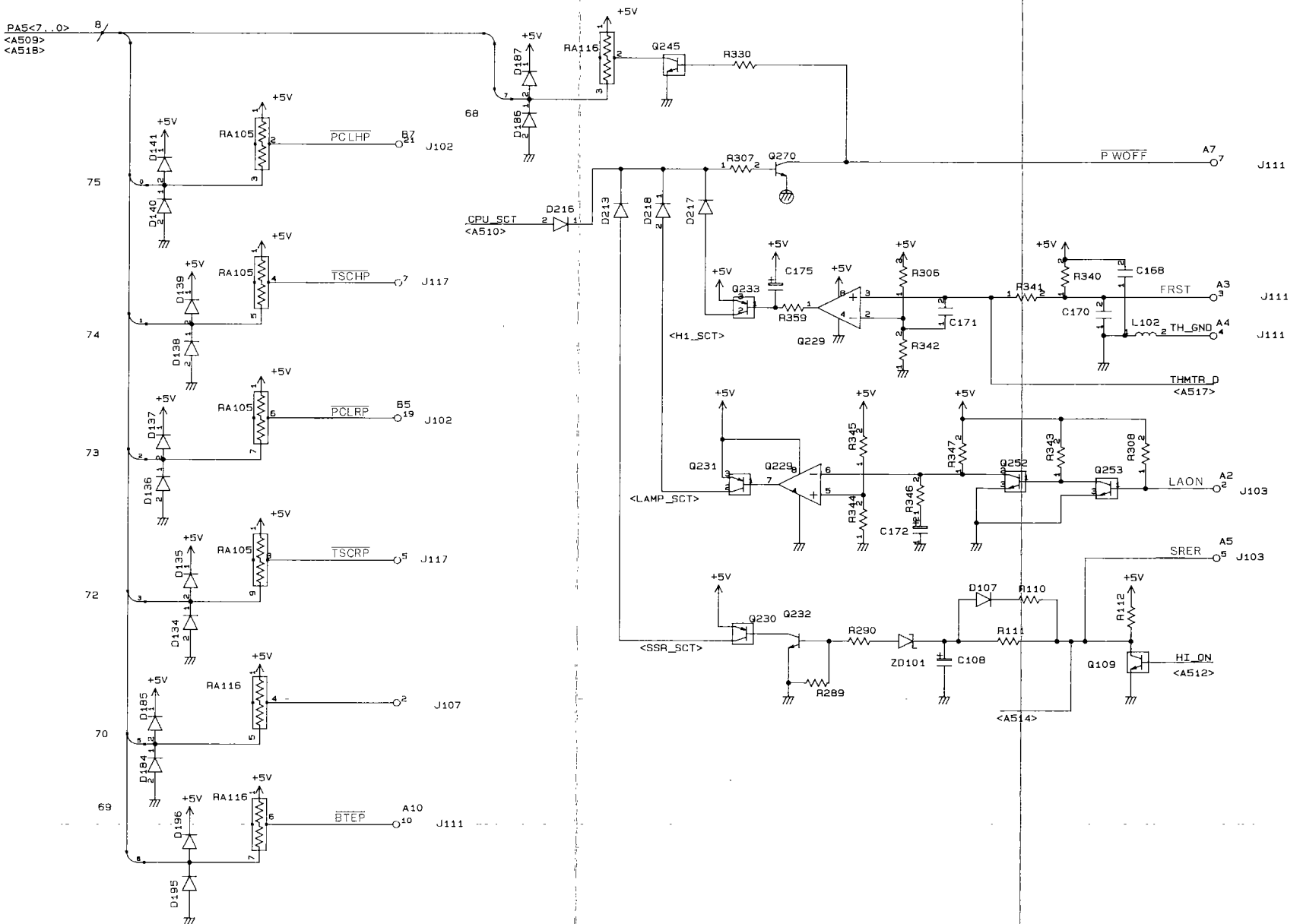

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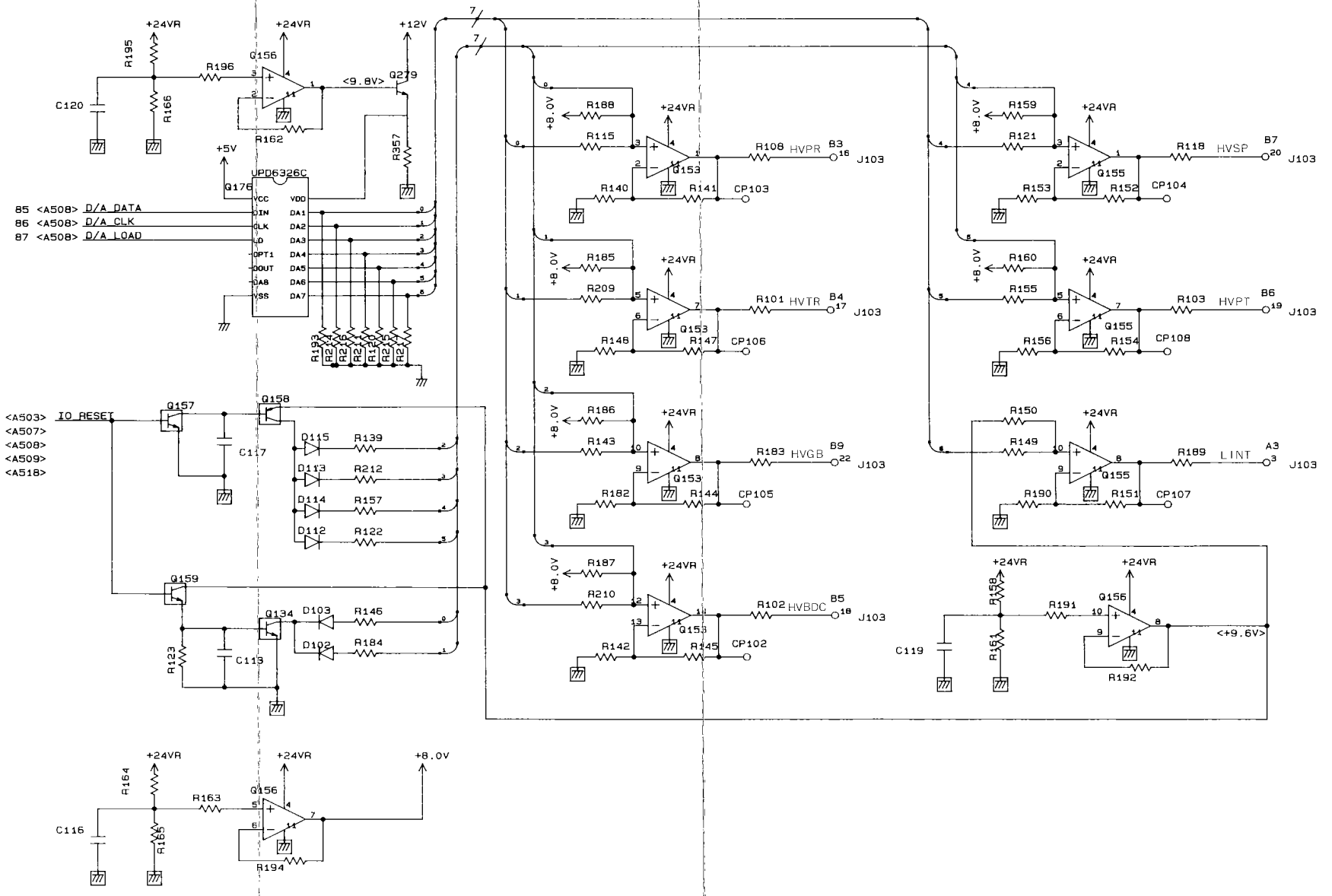

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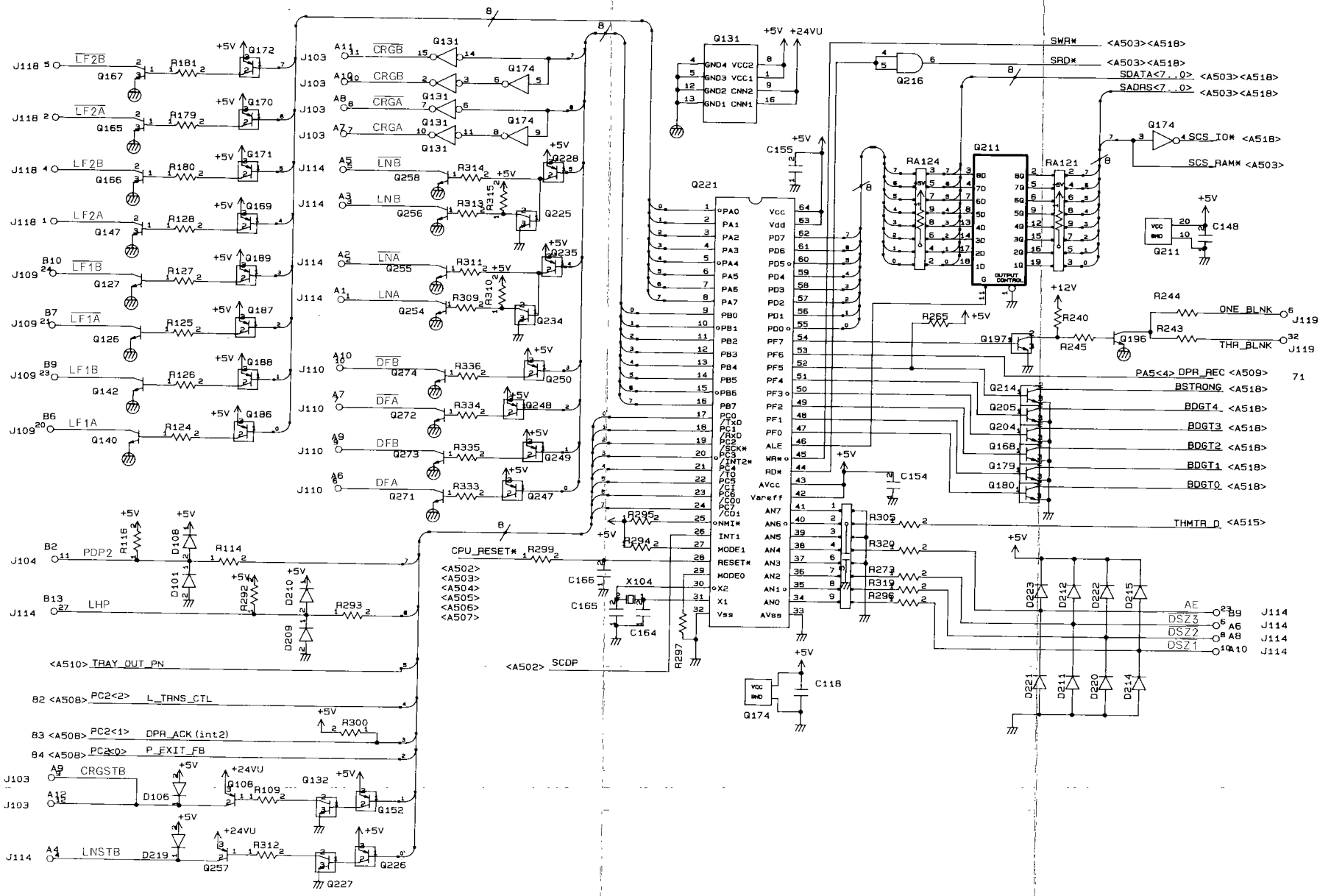

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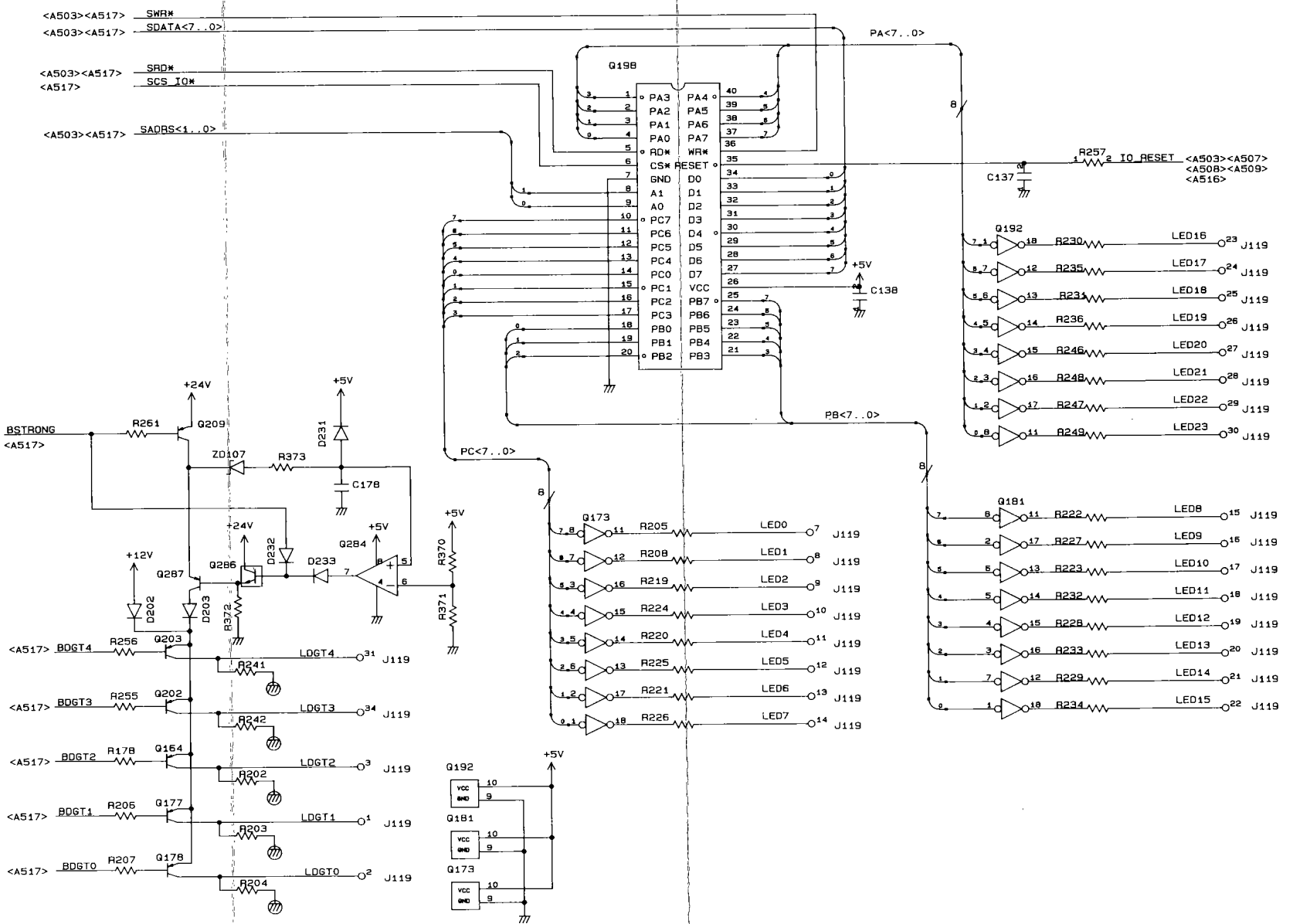

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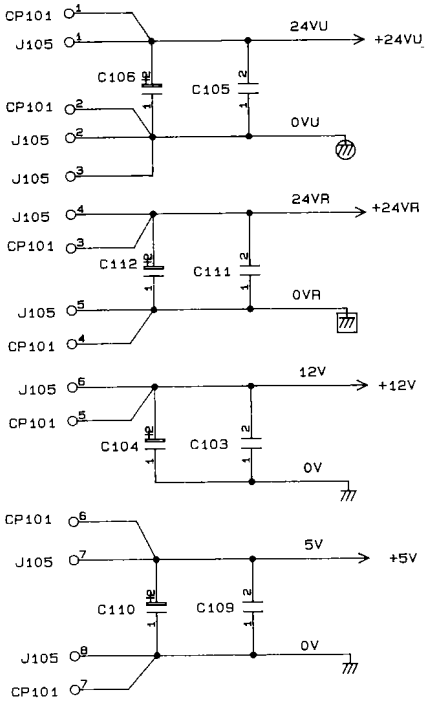
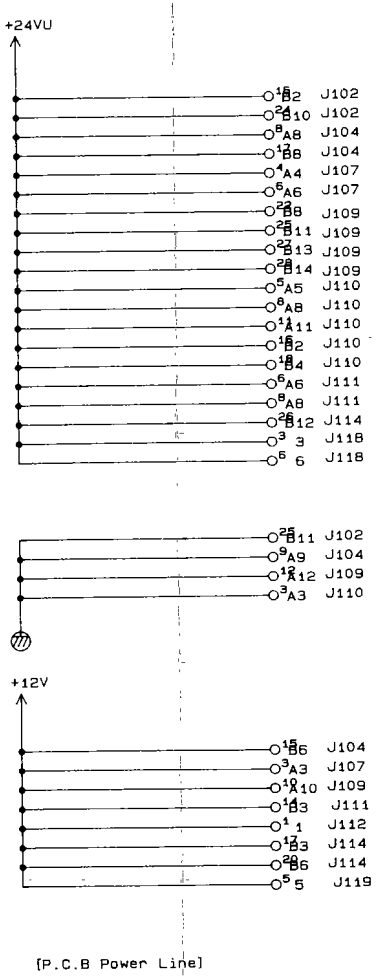
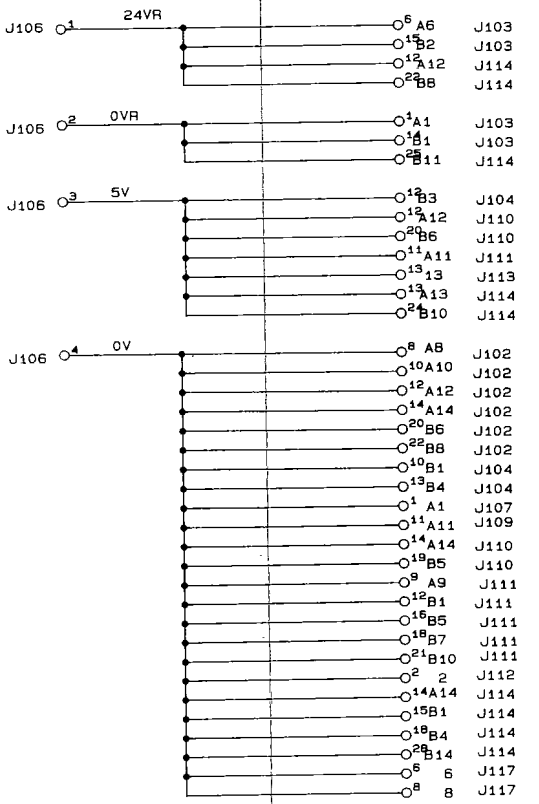


[N.C. Pin]

28 B14 J102	26 B12 J110
13 A13 J103	27 B13 J110
23 B10 J103	28 B14 J110
24 B11 J103	12 B11 J112
25 B12 J103	1 J113
26 B13 J103	2 J113
16 B9 J104	21 B7 J114
9 A9 J107	4 J119
1 A1 J110	33 J119
2 A2 J110	
23 B9 J110	
24 B10 J110	
25 B11 J110	



[P.C.B Power Line]



[Through Power Line]

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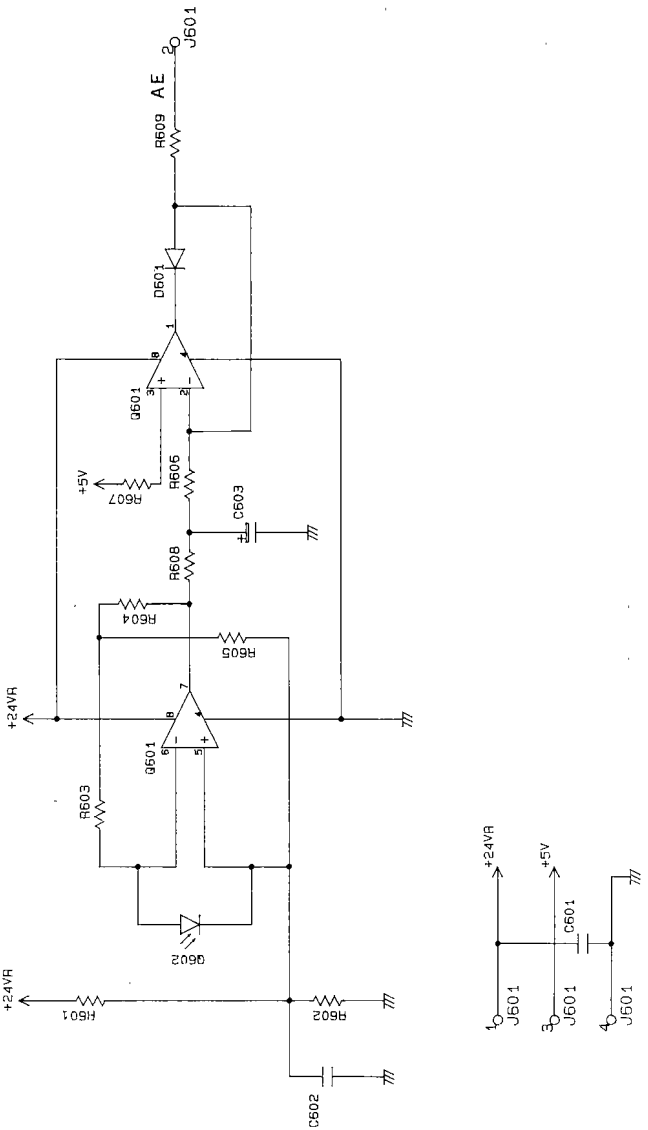
E. AE SENSOR CIRCUIT DIAGRAM



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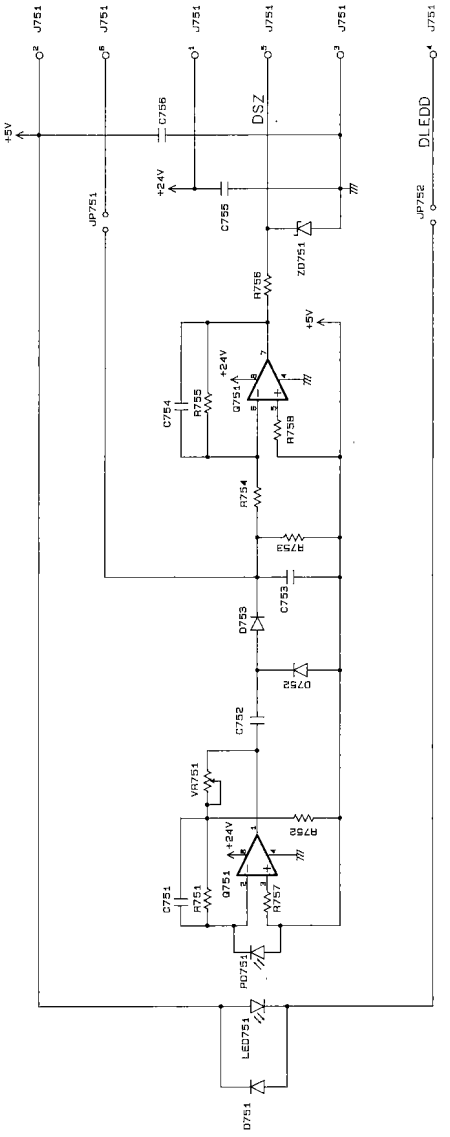
F. DOCUMENT SIZE SENSOR CIRCUIT DIAGRAM

NEW

Note: The circuit diagram shown represents FH1-1348, 1349 [02] and is printed on the document size detection PCB.



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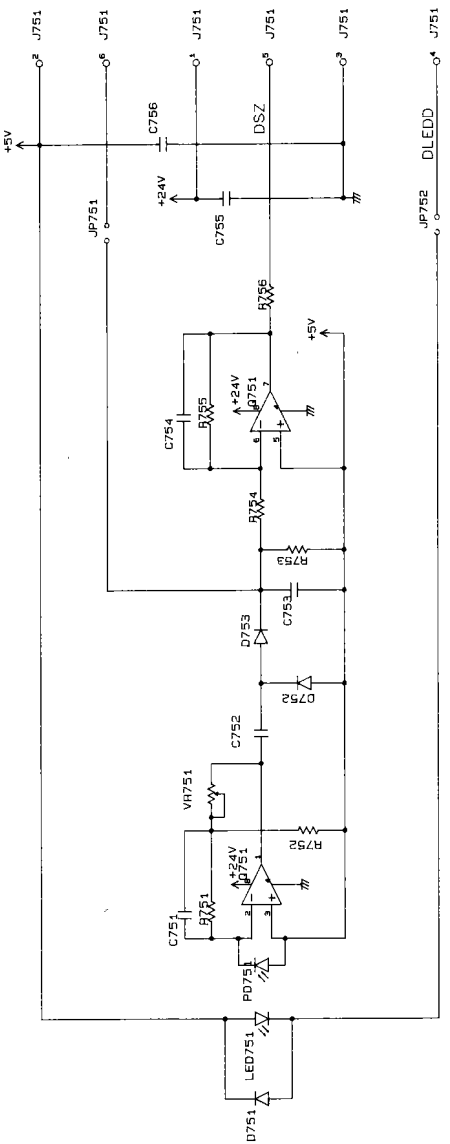
OLD



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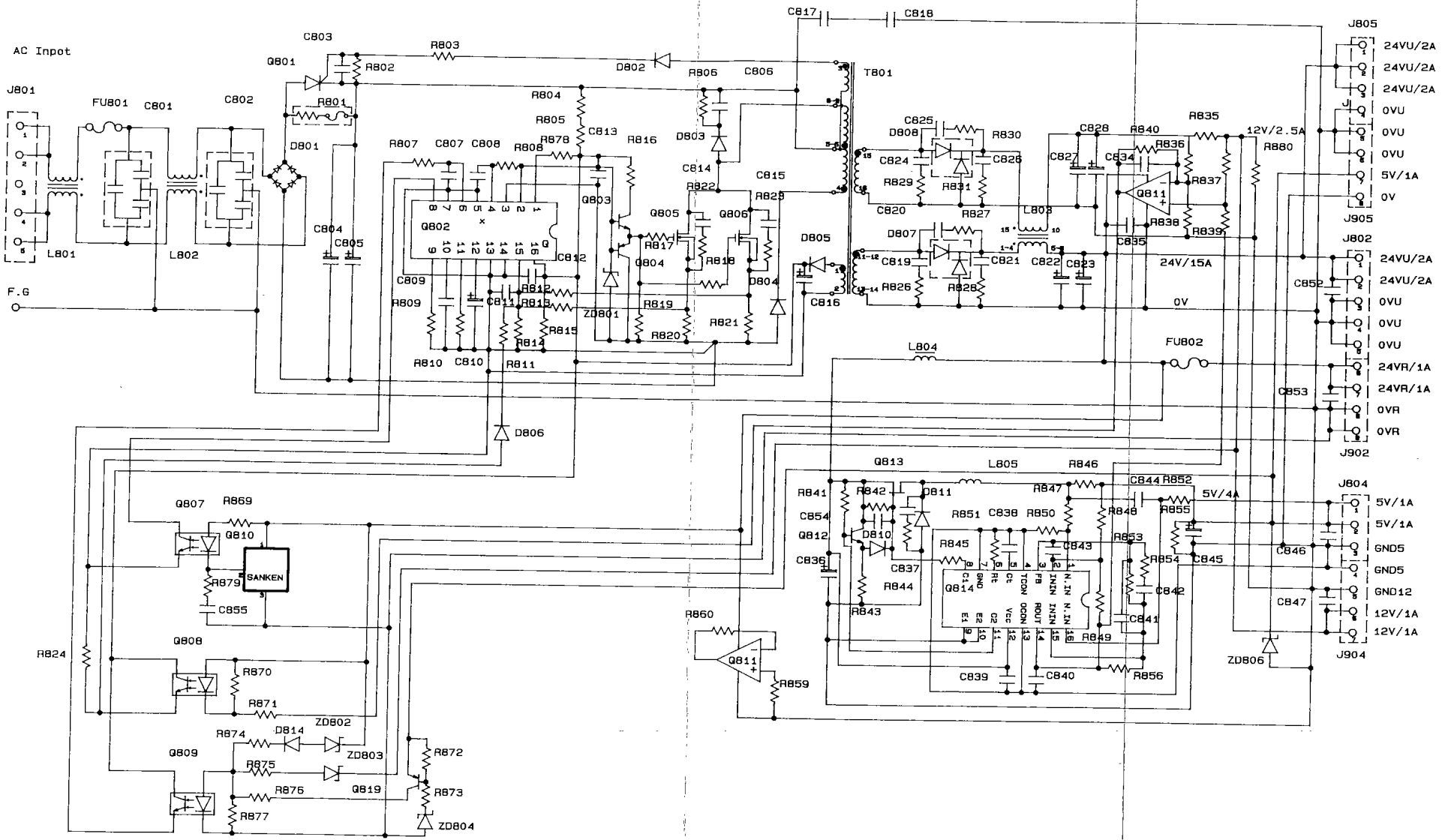
NEW

Note: The circuit diagram shown represents FH1-1537, 1538 [04] and is printed on the DC power supply PCB.

G. DC POWER SUPPLY CIRCUIT DIAGRAM



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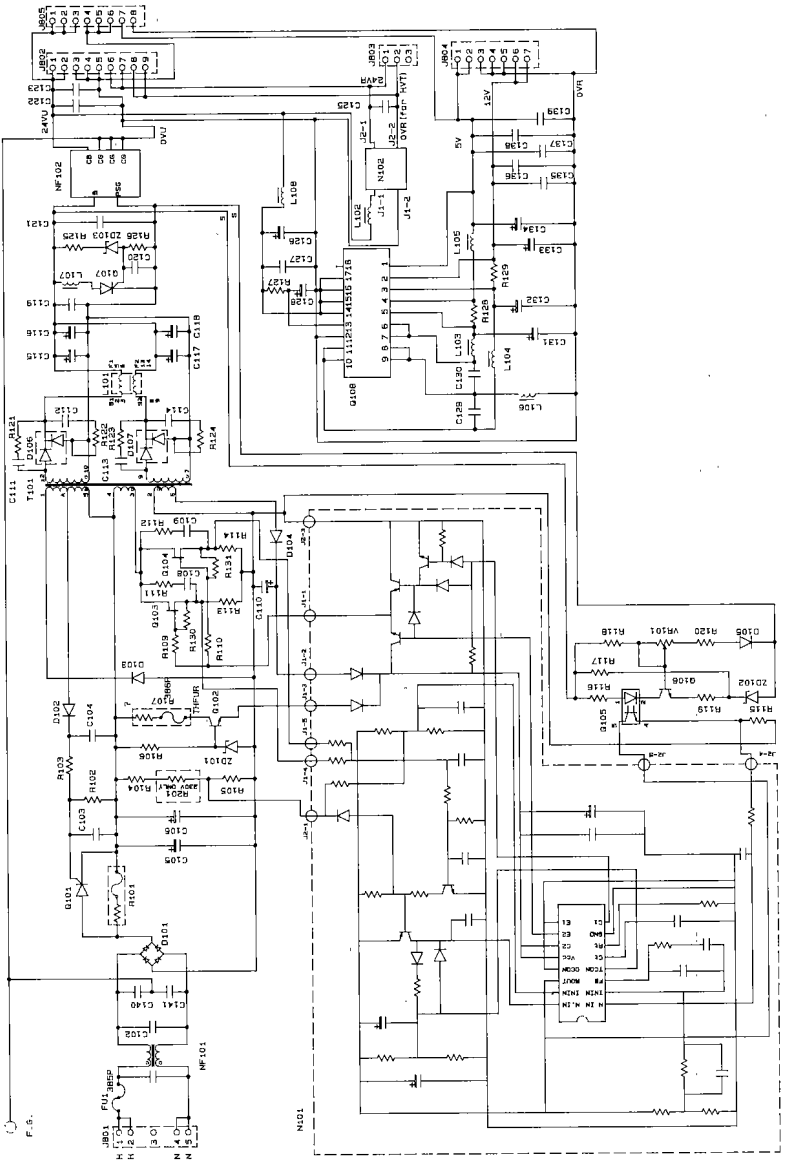
DC POWER SUPPLY CIRCUIT DIAGRAM (1/2)

OLD



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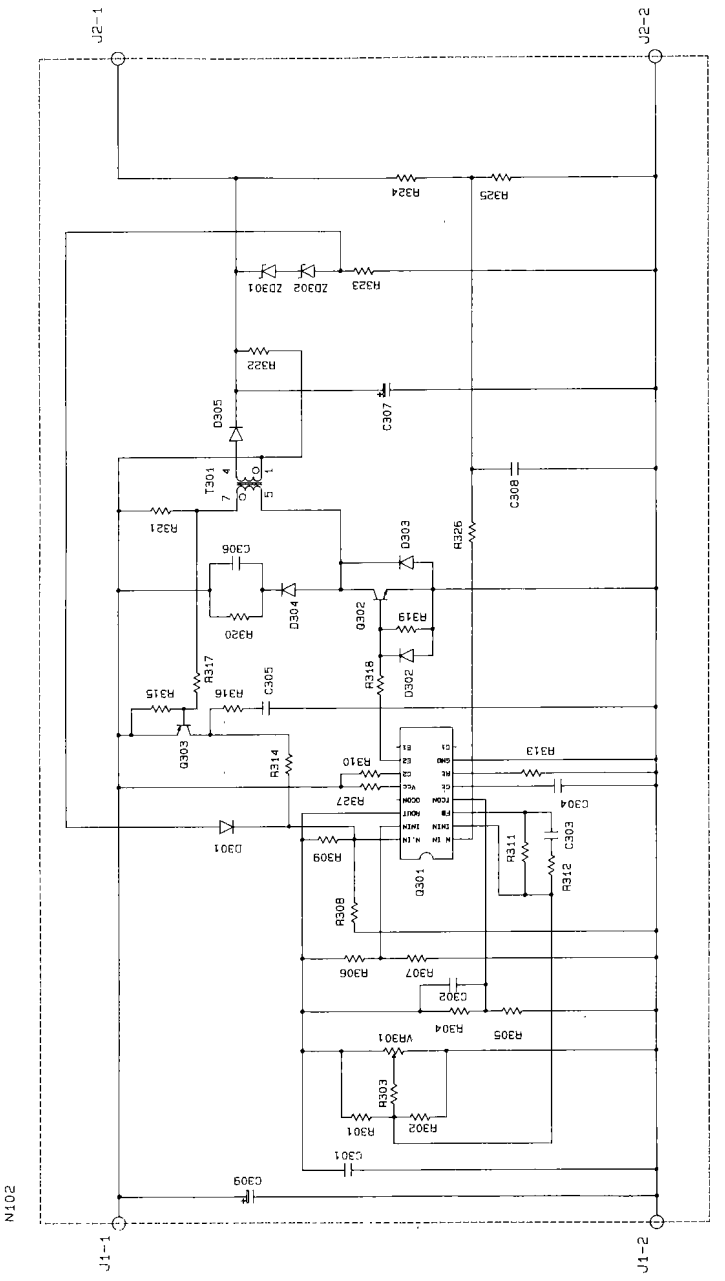
DC POWER SUPPLY CIRCUIT DIAGRAM (2/2)

OLD



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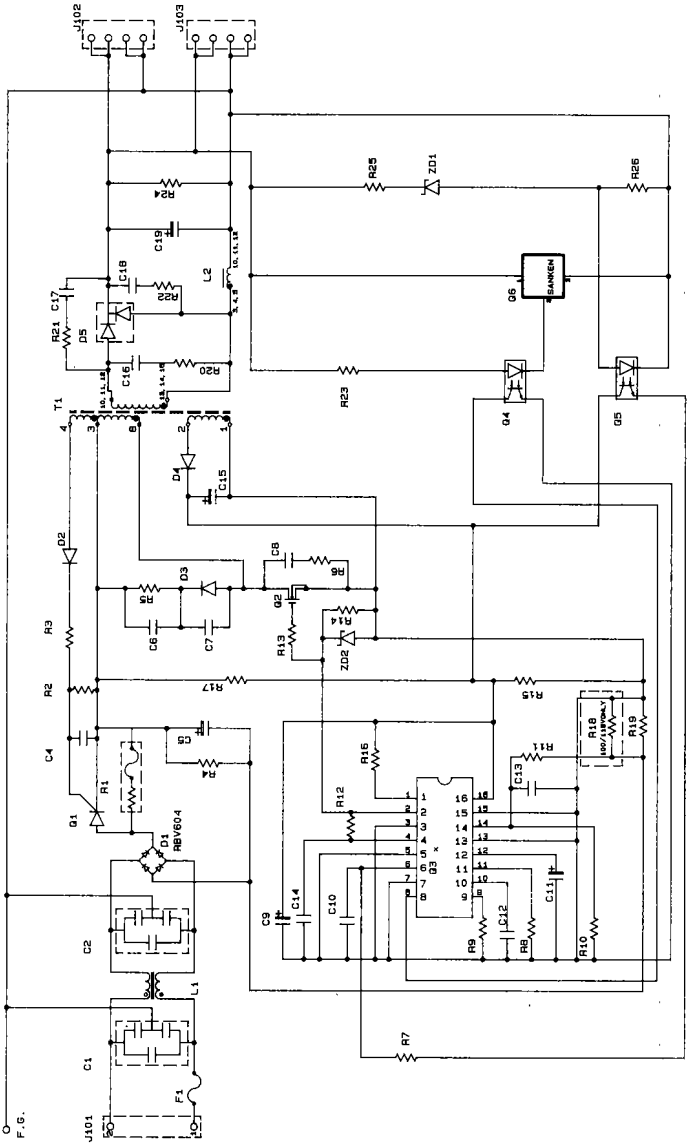
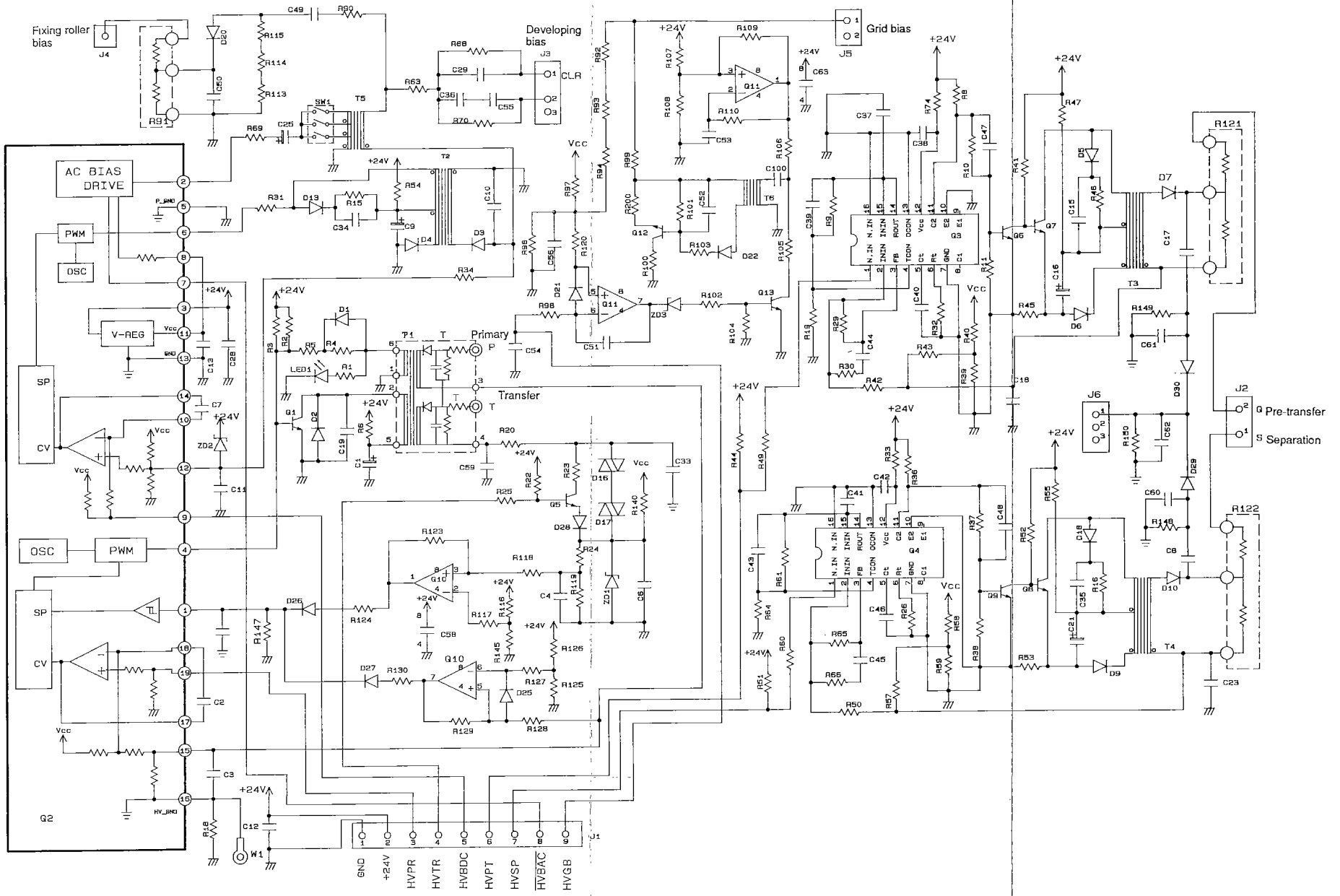
H. DC POWER SUPPLY CIRCUIT DIAGRAM (DF/SORTER)



NEW

Note: The circuit diagram shown represents FH1-1379 [05] and is printed on the HVT PCB.

I. HVT CIRCUIT DIAGRAM



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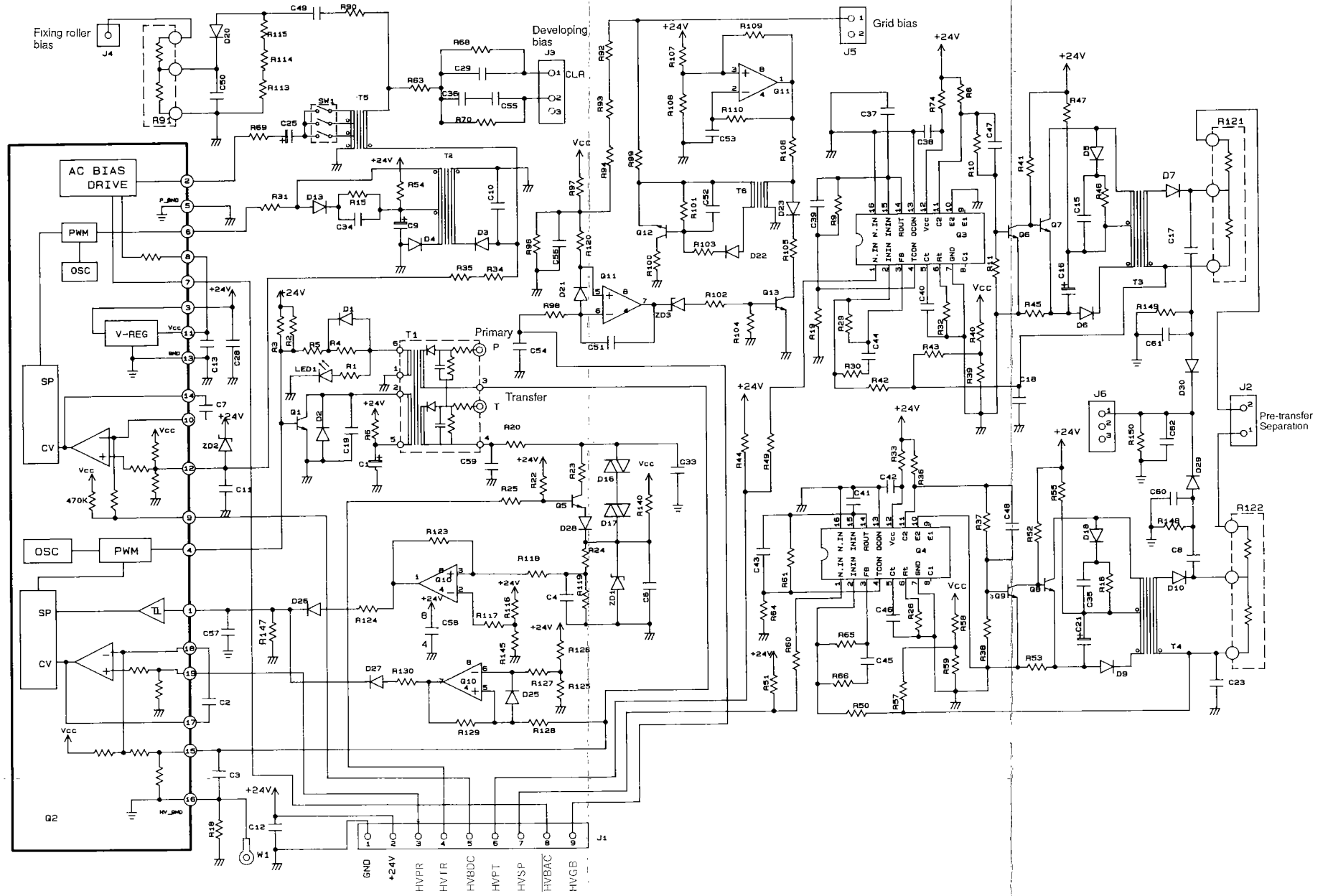
OLD



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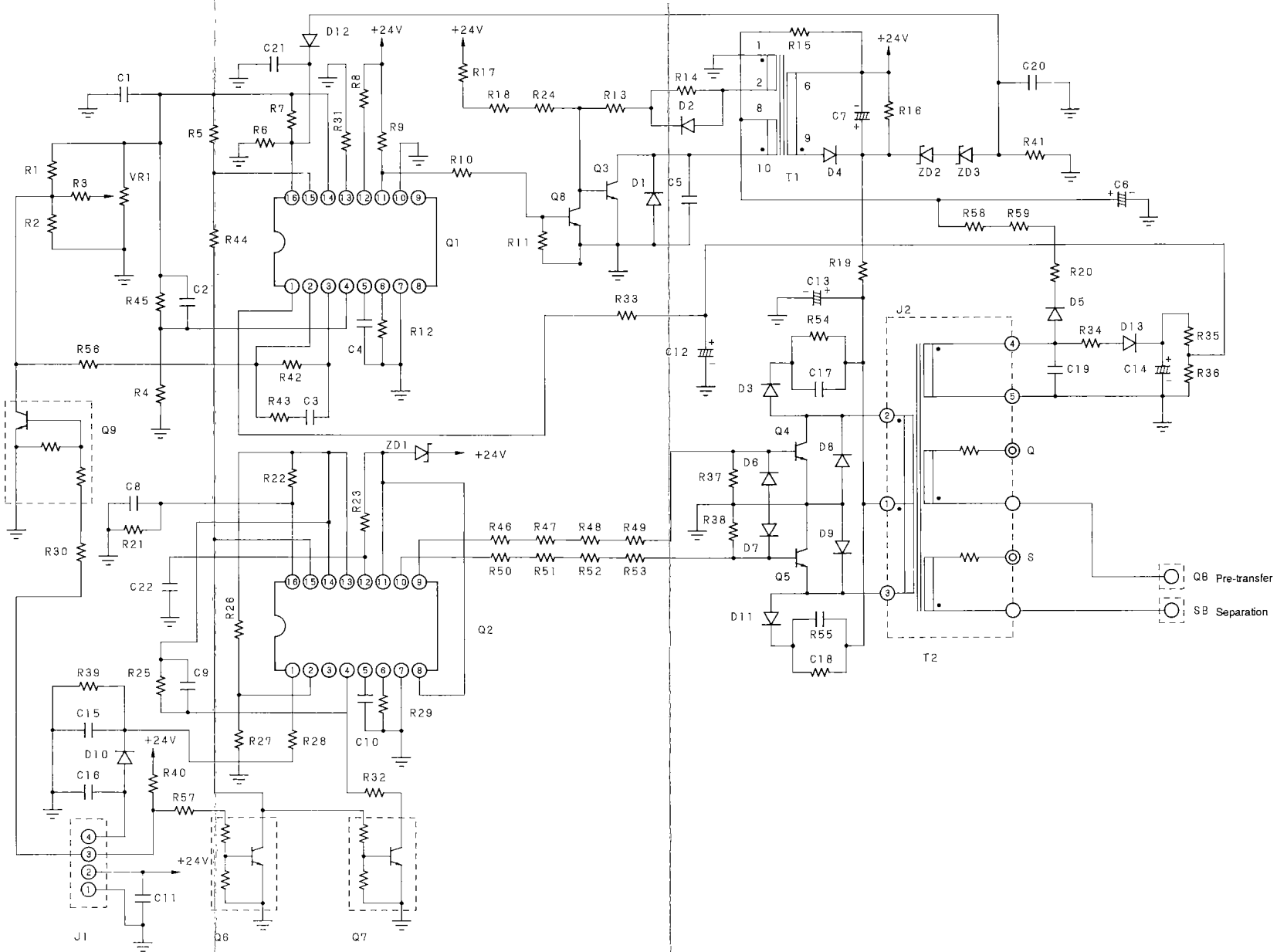
J. HVT AC CIRCUIT DIAGRAM



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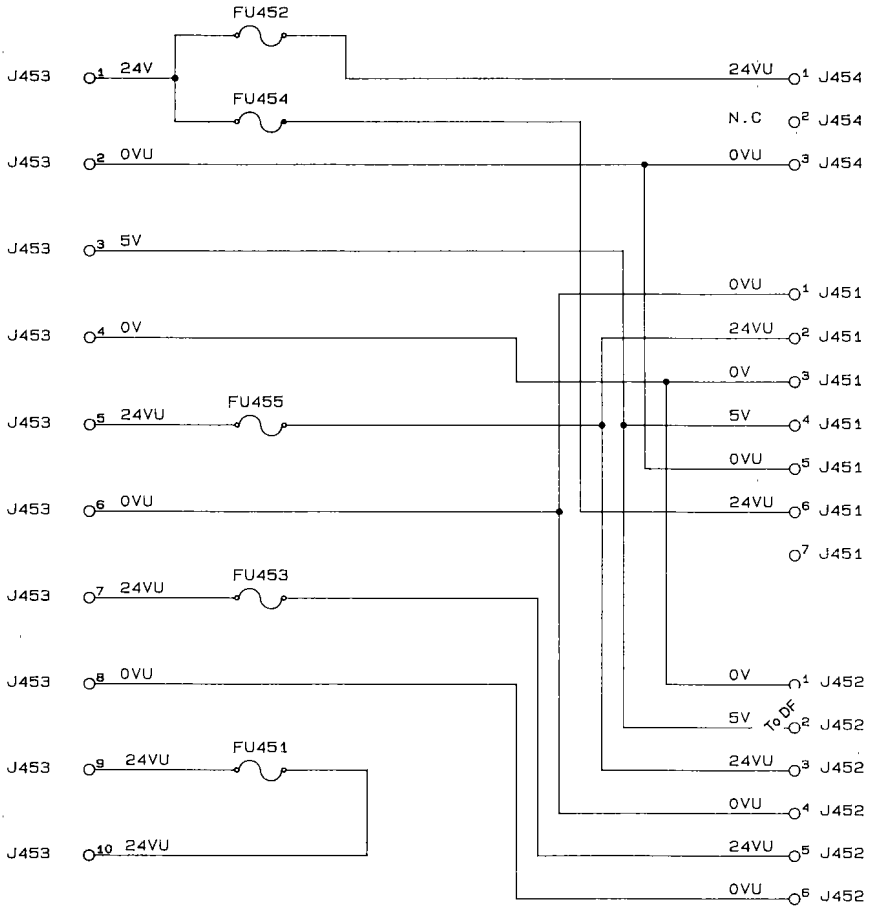
K. FUSE CIRCUIT DIAGRAM



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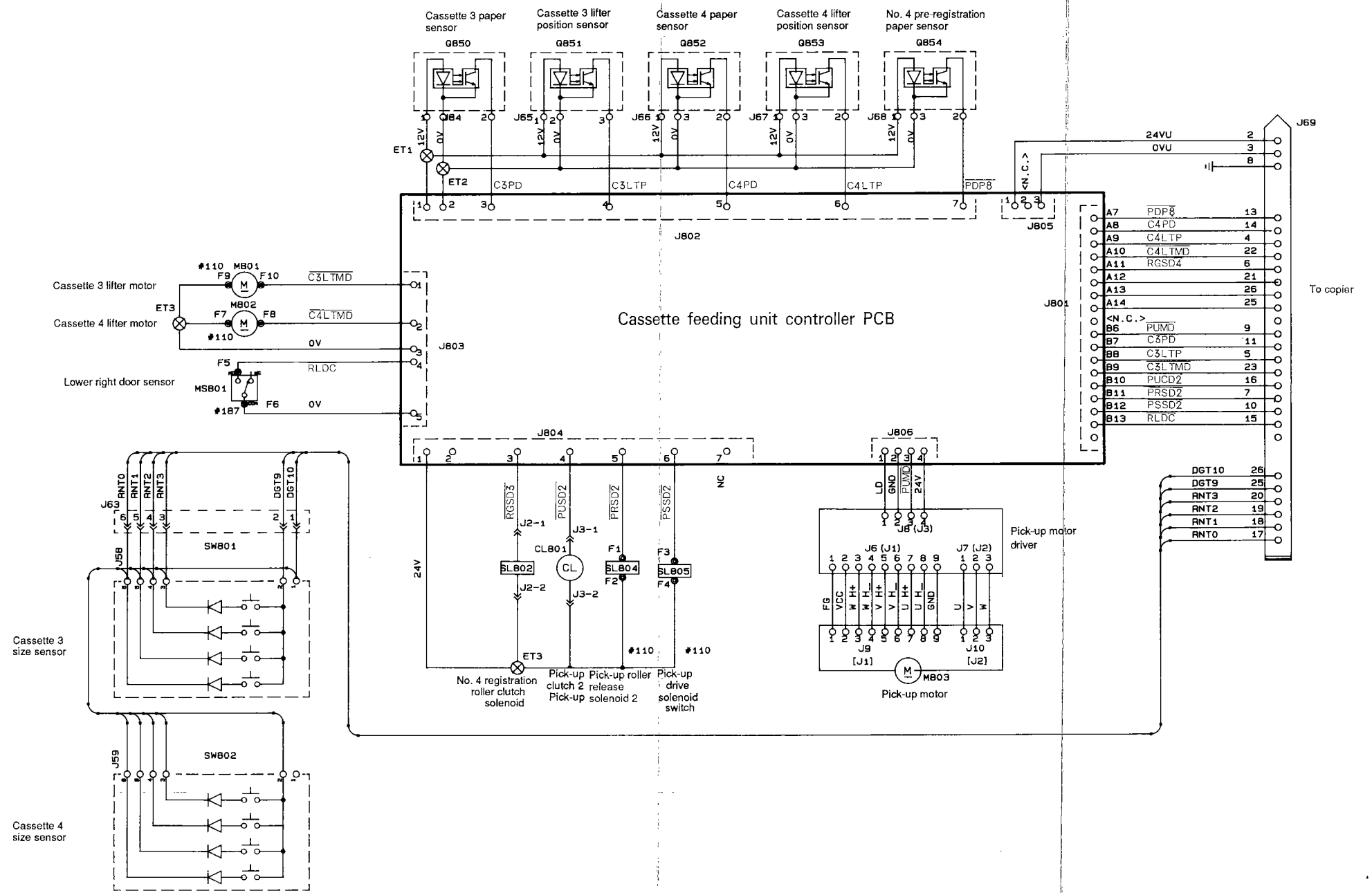
L. CASSETTE FEEDING UNIT GENERAL CIRCUIT DIAGRAM



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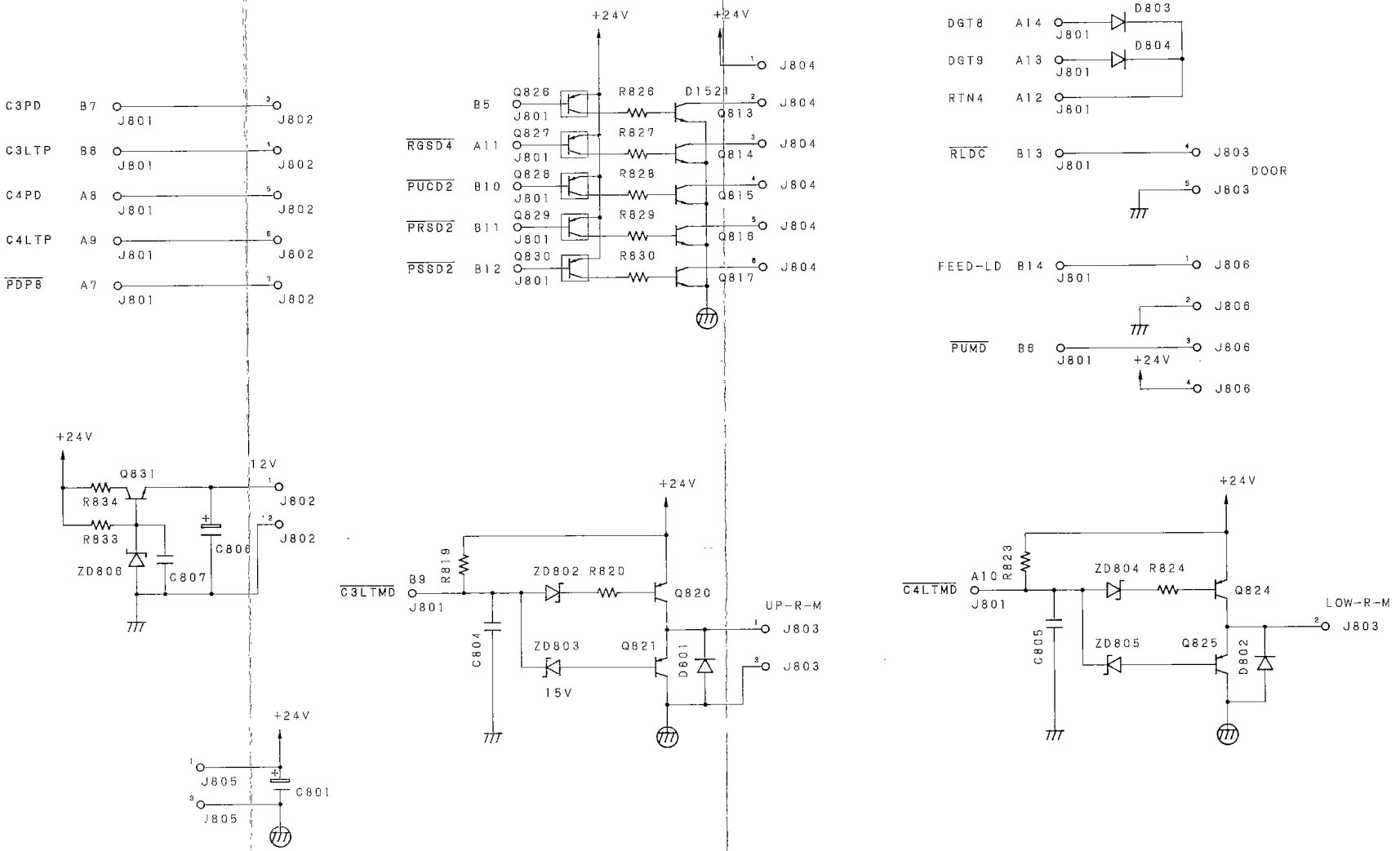
M. CASSETTE FEEDING UNIT CONTROLLER CIRCUIT DIAGRAM



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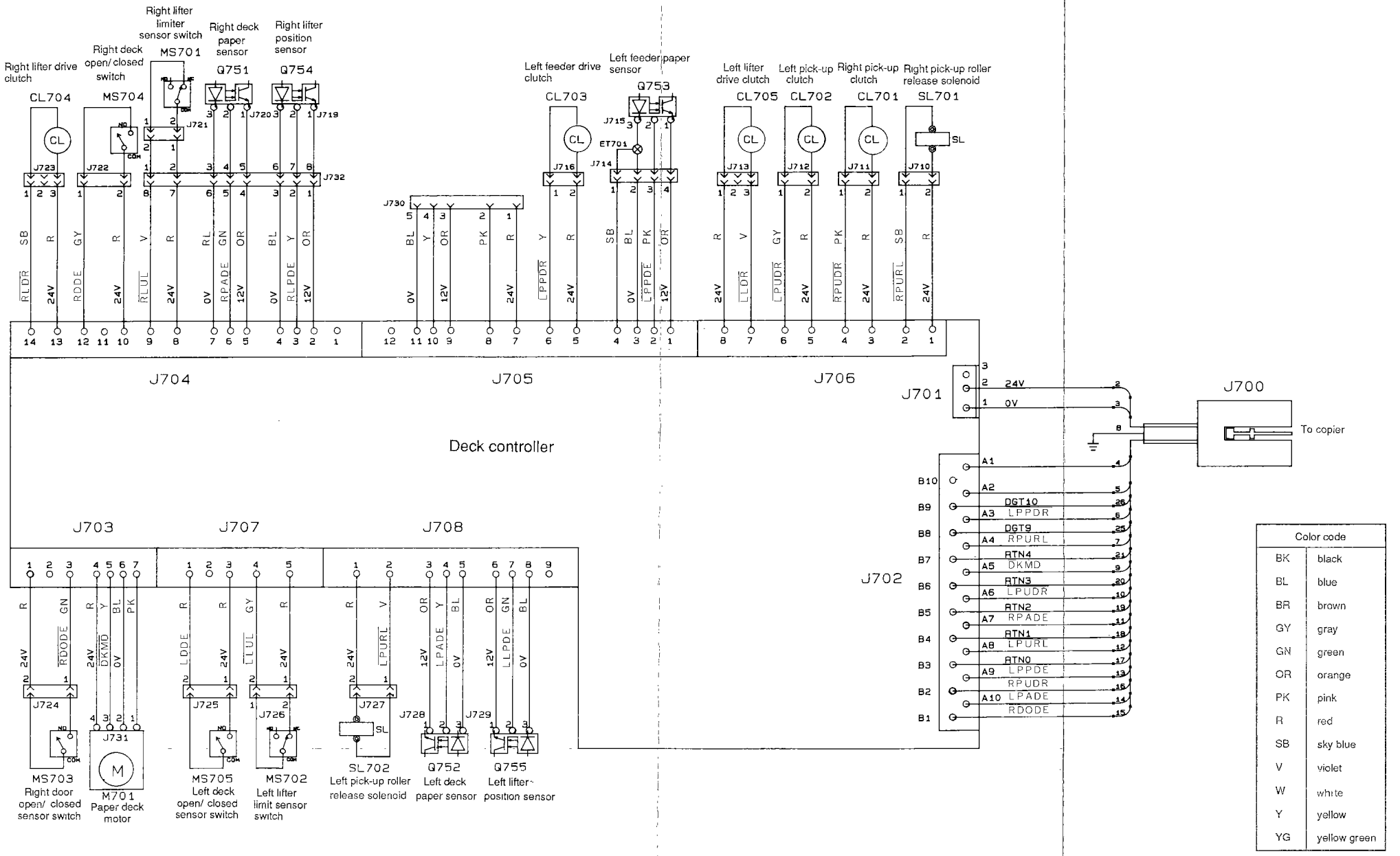
N. PAPER DECK PEDESTAL GENERAL CIRCUIT DIAGRAM



Color code	
BK	black
BL	blue
BR	brown
GY	gray
GN	green
OR	orange
PK	pink
R	red
SB	sky blue
V	violet
W	white
Y	yellow
YG	yellow green

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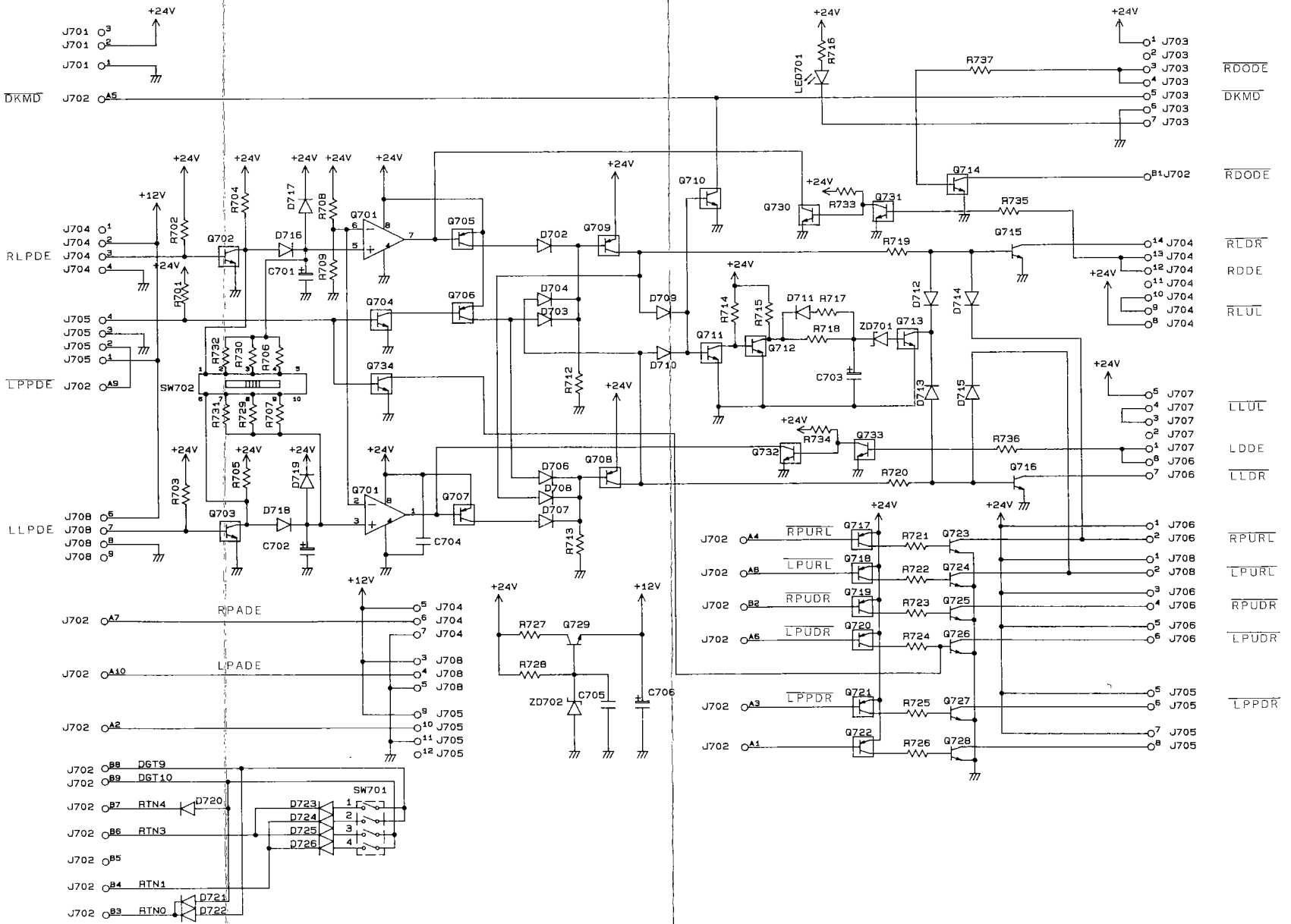
O. DECK CONTROLLER CIRCUIT DIAGRAM



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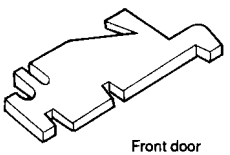
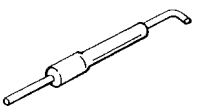
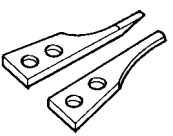
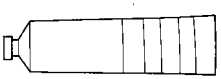
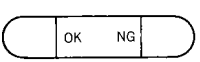
P. SPECIAL PURPOSE TOOLS

Special tools which are required for servicing this copier, in addition to the standard tools set, are listed below.

No.	Tool name	Tool No.	Shape	Code*	Application/Remarks
1	Door switch actuator	TKN-0093	 Front door	A	
2	Spring scale (compression)	CK-0054		B	• Measuring strength of cassette springs • Adjusting scanner drive cable tension
3	Extension blades for pliers	CK-0426		B	Removing grip rings: 4 – 9 mm
4	Cleaning oil	TKN-0464		A	Cleaning fixing rollers (10 pcs./1 carton)
5	Damping material	CK-0439		A	For corona wire (200g/tube)
6	Gap gauges	FY9-3006		B	For adjusting the gap between the developing blade and the developing cylinder.

Code*

A: Each service technician should carry one with him.
B: A group of five service technicians should share one.
C: Each workshop should keep one.

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Q. SOLVENTS/OILS TABLE

No.	Item	Use	Chemical formula, mixture ratio, etc.	Source	Remarks
1.	Ethyl alcohol (Ethanol) Isopropyl alcohol (Isopropanol)	Cleaning: copyboard, glass, mirror, etc.	C_2H_5O $(CHZ_3)_2$ CHOH	Locally	Flammable. Use in a well-ventilated area. Avoid breathing concentrated vapor.
2.	MEK	Removing toner or oil stains	$CH_3COC_2H_5$ Methylethyl ketone	Locally	Flammble. Use in a well-ventilated area and avoid breathing concentrated vapor. Avoid contact with eyes or skin. Do not use on cleaning drum, plastic molded parts, or corona wires.
3.	Heat-resistant grease	Lubricating the drive mechanisms, e.g., copyboard driving gear, fixing drive gear, fixing ass'y, etc.		CANON	Tool No.: CK-0427 (500g/can) (equivalent grease may be used if able to withstand 200°C for extended periods of time.)
4.	Lubricating oil (low viscosity)	Lubricating: scanner rail, etc.	ISO VG 68 oil ESSO Febis K68 MOBIL Vactaoil No. 2 SHELL Tonna oil T68	Locally	Equivalent oil may be used. Tool No.: CK-0451 (100cc)
5.	Lubricating oil (low viscosity)	Lubrication point: one-way clutch in pick-up control unit	ISO VG 220 oil ESSO Febis K220 MOBIL Vactraoil No. 4	Locally	Equivalent oil may be used. Tool No.: CK-0524 (100cc)
6.	Detergent	Cleaning: covers and panels of the machine	Mild detergent solution	Locally	Dish-washing detergent is acceptable.

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NP-4050

PARTS CATALOG

REVISION 1 SEPT. 1992

Canon
FY8-31AM-010

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FIGURE A ASSEMBLY LOCATION DIAGRAM (1/3)
主要部品配置図 (1/3)

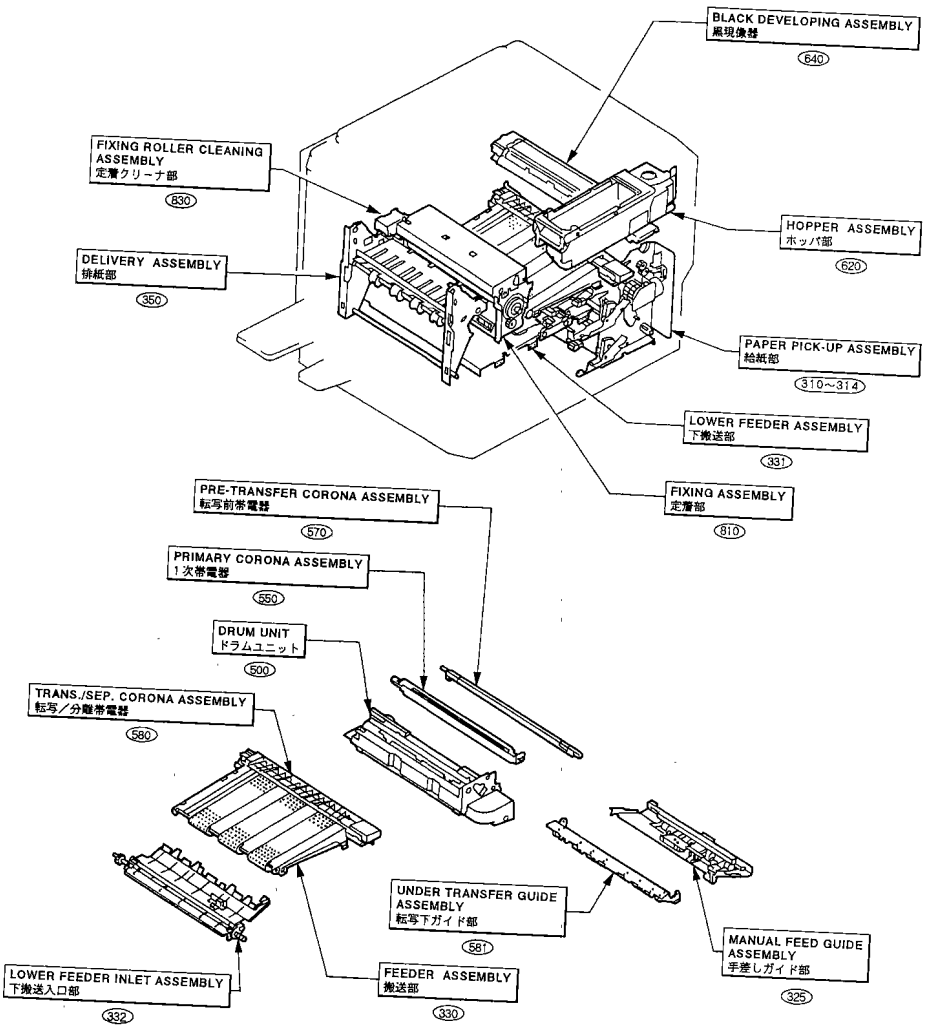

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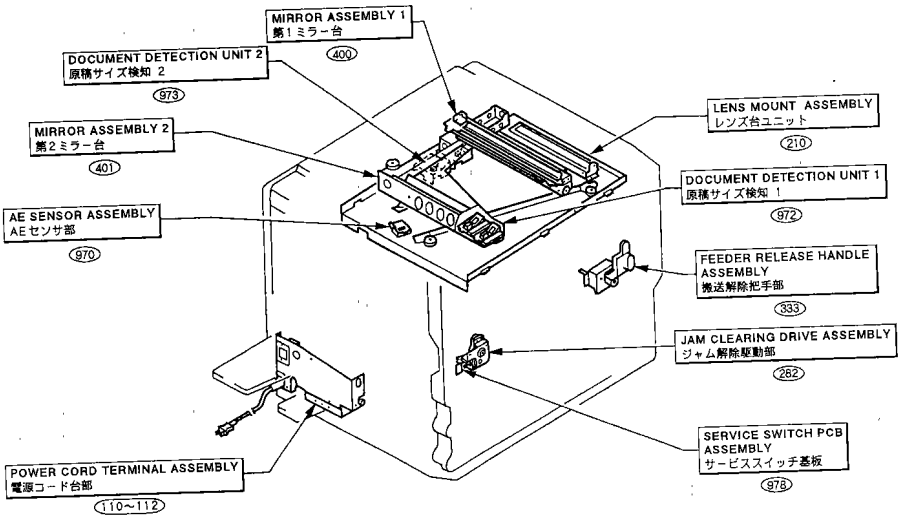
FIGURE A ASSEMBLY LOCATION DIAGRAM (2/3)
主要部品配置図 (2/3)



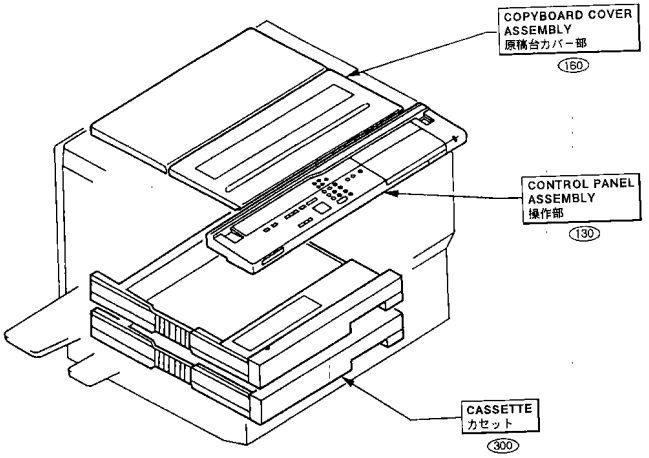


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FIGURE A ASSEMBLY LOCATION DIAGRAM (3/3)
主要部品配置図 (3/3)

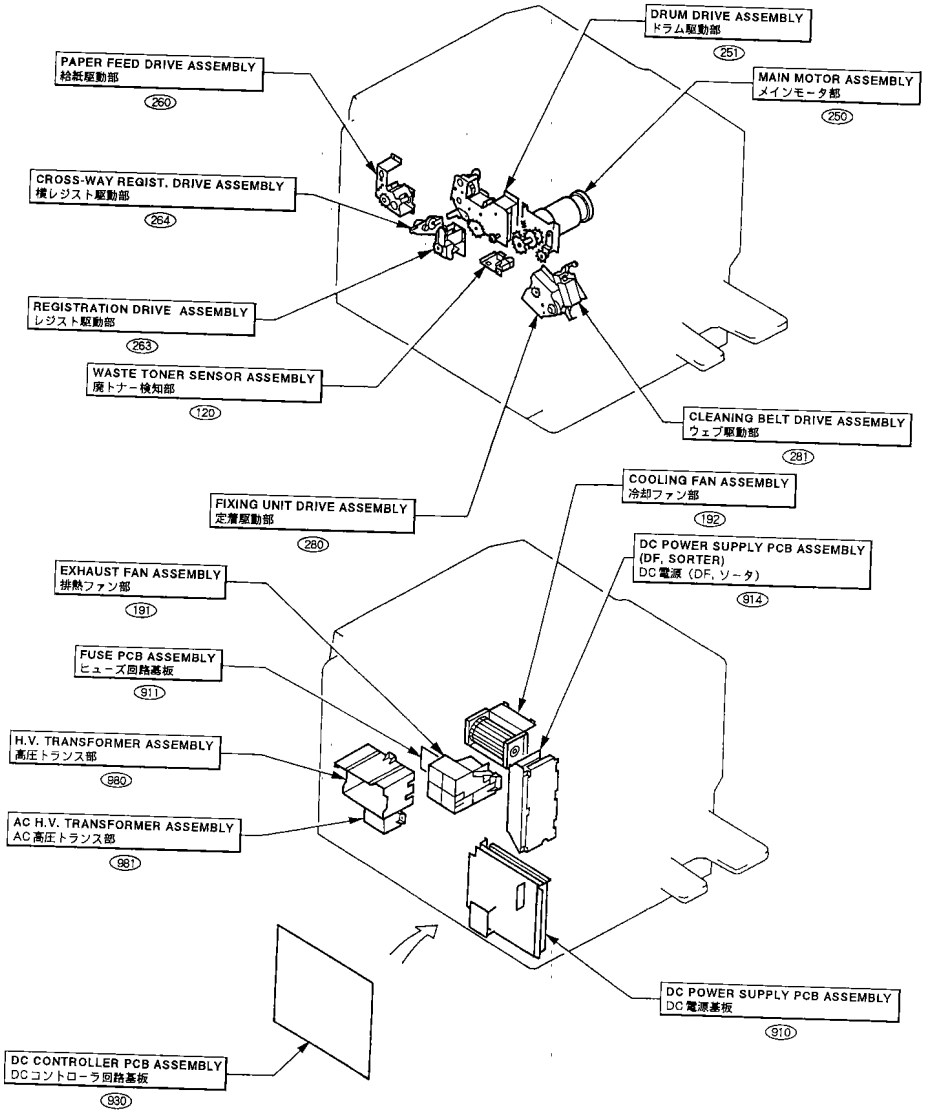

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FIGURE 002 ACCESSORIES
本体付属品

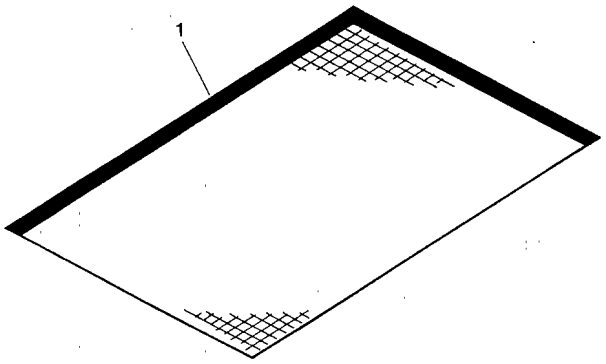

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
002 –	NPN		RF	ACCESSORIES ホンタイ フゾクヒン	
1	FC1 – 6548 – 000		1	FRAMING SCALE トリミング シート	

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FIGURE 100 EXTERNAL COVERS, PANELS, ETC.
外装カバー部

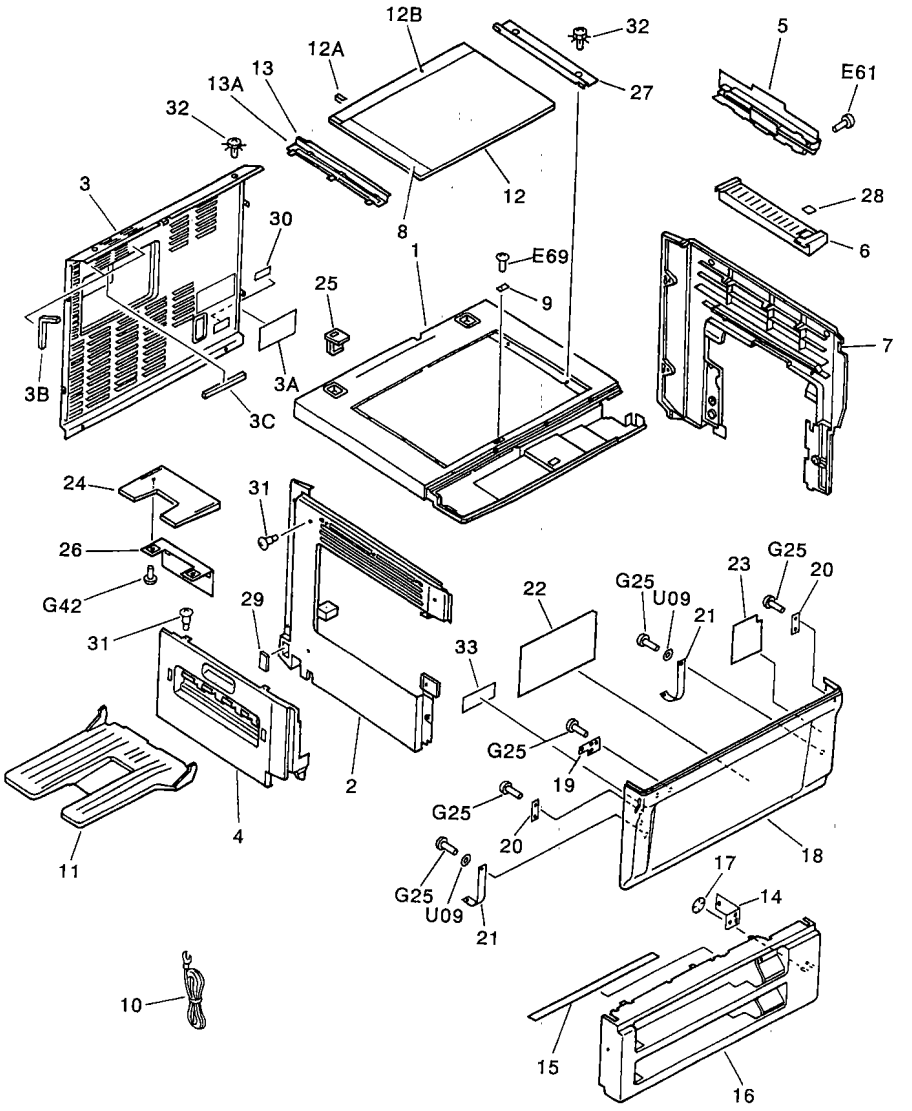

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 –	NPN		RF	EXTERNAL COVERS, PANELS, ETC. ガイソウ カバーブ	
1	FB1 – 6139 – 000		1	COVER, TOP ウエ カバー	
2	FB1 – 6142 – 000		1	COVER, LEFT ヒダリ カバー	
3	FF5 – 0972 – 000		1	PANEL, REAR ウシロ カバー	
3A	FB1 – 6419 – 000		1	SHEET, INSULATION ゼツエン シート	
3B	FB1 – 6066 – 000		2	SEAL, FAN, 1 ファン シール (1)	
3C	FB1 – 6067 – 000		1	SEAL, FAN, 2 ファン シール (2)	
4	FB1 – 6148 – 000		1	COVER, DELIVERY ハイシ カバー	
5	FB1 – 6149 – 000		1	PANEL, MANUAL FEED テザシ カバー	
6	FB1 – 6150 – 000		1	TRAY, MANUAL FEED テザシ トレイ	
7	FB1 – 6153 – 000		1	PANEL, RIGHT ミギ カバー	
8	FS5 – 8456 – 000		1	PLATE, SIZE INDEX, WIDTH サイズ プレート (タテ)	AB SIZE
	FS5 – 8457 – 000		1	PLATE, SIZE INDEX, WIDTH サイズ プレート (タテ)	INCH/A SIZE
	FS5 – 8458 – 000		1	PLATE, SIZE INDEX, WIDTH サイズ プレート (タテ)	A SIZE
	FS5 – 8459 – 000		1	PLATE, SIZE INDEX, WIDTH サイズ プレート (タテ)	AB/INCH SIZE
9	FA3 – 9315 – 000		1	PLATE, COVER アナ フサギ	
10	FH2 – 5006 – 000		1	WIRE, GROUNDING アース コード	
11	FA6 – 6875 – 000		1	TRAY, COPY ハイシ トレイ	
12	FF5 – 0889 – 000		1	GLASS, COPYBOARD ゲンコウ ダイ ガラス	AB SIZE
	FF5 – 0890 – 000		1	GLASS, COPYBOARD ゲンコウ ダイ ガラス	INCH/A SIZE
	FF5 – 0891 – 000		1	GLASS, COPYBOARD ゲンコウ ダイ ガラス	A SIZE
	FF5 – 0892 – 000		1	GLASS, COPYBOARD ゲンコウ ダイ ガラス	INCH/AB SIZE
12A	FA9 – 1768 – 000		1	SPRING, LEAF イタバネ	
12B	FS8 – 8186 – 000		1	PLATE, SIZE INDEX, LENGTH サイズ プレート (ヨコ)	AB SIZE
	FS8 – 8187 – 000		1	PLATE, SIZE INDEX, LENGTH サイズ プレート (ヨコ)	A/INCH SIZE
	FS8 – 8188 – 000		1	PLATE, SIZE INDEX, LENGTH サイズ プレート (ヨコ)	A SIZE
	FS8 – 8189 – 000		1	PLATE, LENGTH INDEX サイズ プレート (ヨコ)	AB/INCH SIZE
13	FF5 – 1035 – 000		1	RETAINER, COPYBOARD GLASS, LEFT DF ヨウ ヒダリ ガラス オサエ	115/220/240V
	FF5 – 1037 – 020		1	PLATE, GLASS RETAINER, LEFT ヒダリ ガラス オサエ	100V
13A	FA5 – 3210 – 000		1	SHEET シート	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 – 14	FA5 – 3261 – 000		1	PLATE, PANEL マエ シタ カバー カナグ	
15	FA5 – 3263 – 000		1	SEAL シール	
16	FB1 – 6141 – 000		1	PANEL, FRONT LOWER マエ シタ カバー	
17	XD9 – 0078 – 000		3	RING, SE SE リング	
18	FB1 – 6140 – 000		1	PANEL, FRONT マエ カバー	
19	FB1 – 6029 – 000		1	ACTUATOR アクチユエータ	
20	FB1 – 6053 – 000		2	PLATE, CATCH キャッチ バン	
21	FB1 – 6055 – 000		2	TAPE, DOOR ササエ テープ	
22	FS8 – 8668 – 000		1	LABEL, JAM CLEAR'G/TONER INST. ジヤム シヨリ/トナー ホキユウ ラベル	
23	FS5 – 8466 – 000		1	LABEL, JAM CLEARING, 3 ジヤム シヨリ ラベル (3)	
24	FA5 – 8684 – 000		1	TABLE, DOCUMENT ゲンコウ オキ ダイ	
25	FA6 – 4375 – 000		2	BUSHING ブツシユ	
26	FB1 – 6387 – 000		1	SUPPORT, DOCUMENT TRAY ゲンコウ オキダイ シバン	
27	FA6 – 8837 – 020		1	RETAINER, COPYBOARD GLASS ミギ ガラス オサエ	
28	FS8 – 8190 – 000		1	LABEL テザシ マーク ラベル	
29	FH2 – 5824 – 000		1	COVER, CONNECTOR, 1 コネクタ カバー (1)	
30	FC1 – 5125 – 000		1	RATING, PLATE, 100V テイカク メイハン	100V
	FC1 – 5127 – 000		1	RATING PLATE, 220/240V テイカク メイハン	220/240V
31	FS1 – 9003 – 000		3	SCREW, STEPPED, M4 ダンビス	
32	FA9 – 2105 – 000		6	SCREW, W/TOOTHED WASHER キクザツキ バインド ネジ	
33	FS8 – 8667 – 000		1	LABEL ラベル	

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FIGURE 101 MACHINE FRONT PLATE
本体前側板

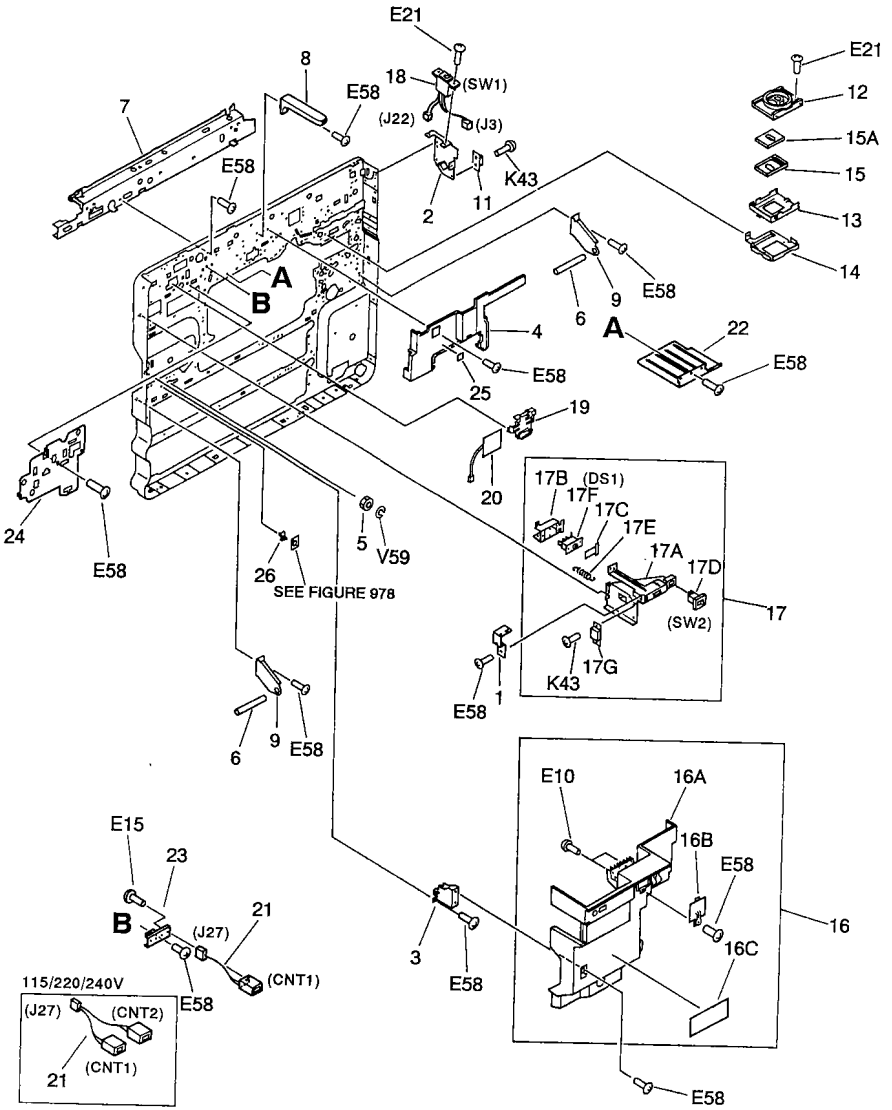

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 –	NPN		RF	MACHINE FRONT PLATE ホンタイ マエ ソクバン	
1	FB1 – 6088 – 000		1	SUPPORT, CONTROL PANEL ソウサブ コテイ バン	
2	FB1 – 6118 – 000		1	MOUNT, MAIN SWITCH メイン スイツチ ダイ	
3	FB1 – 6129 – 000		1	SUPPORT, FRONT PANEL マエ カバー ササエ イタ	
4	FB1 – 6147 – 000		1	COVER, INTERNAL, HOPPER ウチ カバー (ホツパ ウラ)	
5	FS5 – 0302 – 000		1	GEAR, 25T 25T ギア	
6	FA2 – 8590 – 000		2	PIN HINGE, FRONT PANEL ピン	
7	FB1 – 6406 – 000	N	1	CROSSMEMBER, FRONT マエ レール	
8	FA5 – 3110 – 000		1	MOUNT, CONTROL PANEL ソウサブ ダイ	
9	FA5 – 3125 – 000		2	HINGE, FRONT DOOR マエ ドア ヒンジ	
11	XZ9 – 0252 – 000		1	CATCH, MAGNET マグネツト キヤツチ	
12	FB1 – 5818 – 000		1	JOINT, HOPPER, 1 ホツパ ジヨイント (1)	
13	FB1 – 5819 – 000		1	JOINT, HOPPER, 2 ホツパ ジヨイント (2)	
14	FB1 – 5822 – 000		1	MOUNT, HOPPER JOINT ホツパ ジヨイント ダイ	
15	FF5 – 0922 – 000		1	PLATE, JOINT ジヨイント プレート	
15A	FB1 – 5821 – 000		1	SEAL シール	
16	FG5 – 1239 – 000		1	COUNTER COVER ASSEMBLY カウンタ カバー ブ	
16A	FB1 – 6146 – 000		1	COVER, INTERNAL, LEFT ウチ カバー (ヒダリ)	
16B	FB1 – 6173 – 000		1	WINDOW マド	
16C	FS8 – 8670 – 000		1	LABEL, JAM CLEARING, 2 ジヤム シヨリ ラベル (2)	
17	FG5 – 1224 – 000		1	DOOR SWITCH ASSEMBLY ドア スイツチ ブ	100V
	FG5 – 1343 – 000		1	DOOR SWITCH ASSEMBLY ドア スイツチ ブ	115/220/240V
17A	FB1 – 5994 – 000		1	MOUNT, DOOR SWITCH ドア スイツチ ダイ	
17B	FB1 – 5995 – 000		1	HOLDER, DOOR SWITCH ドア スイツチ ホルダ	
17C	FB1 – 5996 – 000		1	PLATE ドア スイツチ バン	
17D	FH7 – 6152 – 000		1	SWITCH, ROCKER シーソ スイツチ	100V
17E	FS5 – 2261 – 000		1	SPRING, TENSION ヒツパリ バネ	
17F	WC2 – 5078 – 000		1	SWITCH, PUSHBUTTON プツシユ スイツチ	
17G	XZ9 – 0251 – 000		1	CATCH, MAGNET マグネツト キヤツチ	
18	FF2 – 5895 – 000		1	MAIN SWITCH ASSEMBLY メイン スイツチ ユニツト	100V

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 – 18	FH7 – 6162 – 000		1	MAIN SWITCH メイン スイッチ	115/220/240V
19	FA5 – 3285 – 000		1	HOLDER, POWER SUPPLY PCB キバン ホルダ	
20	FH3 – 2222 – 000		1	POWER SUPPLY PCB ASSEMBLY デンゲン キバン	
21	FF2 – 7094 – 000		1	COUNTER カウンタ	100V
	FF2 – 7095 – 000		1	COUNTER カウンタ	115/220/240V
22	FB1 – 6403 – 000		1	COVER, LASER レーザ カバー	
23	FB1 – 6174 – 000		1	MOUNT, COUNTOR カウンタ ダイ	
24	FB1 – 6176 – 000		1	PLATE, BLANKING メカクシ バン	
25	FS2 – 8614 – 000		1	LABEL, "WARNING,HIGH VOLTAGE" コウアツ チユウイ メイハン	220/240V
	FS8 – 8194 – 000		1	LABEL, WARNING コネクタ チユウイ ラベル	115V
26	VT2 – 0001 – 004		2	SUPPORT, PCB ロツキング サポート	

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FIGURE 102 INTERNAL COMPONENTS 1
本体機械内部（1）

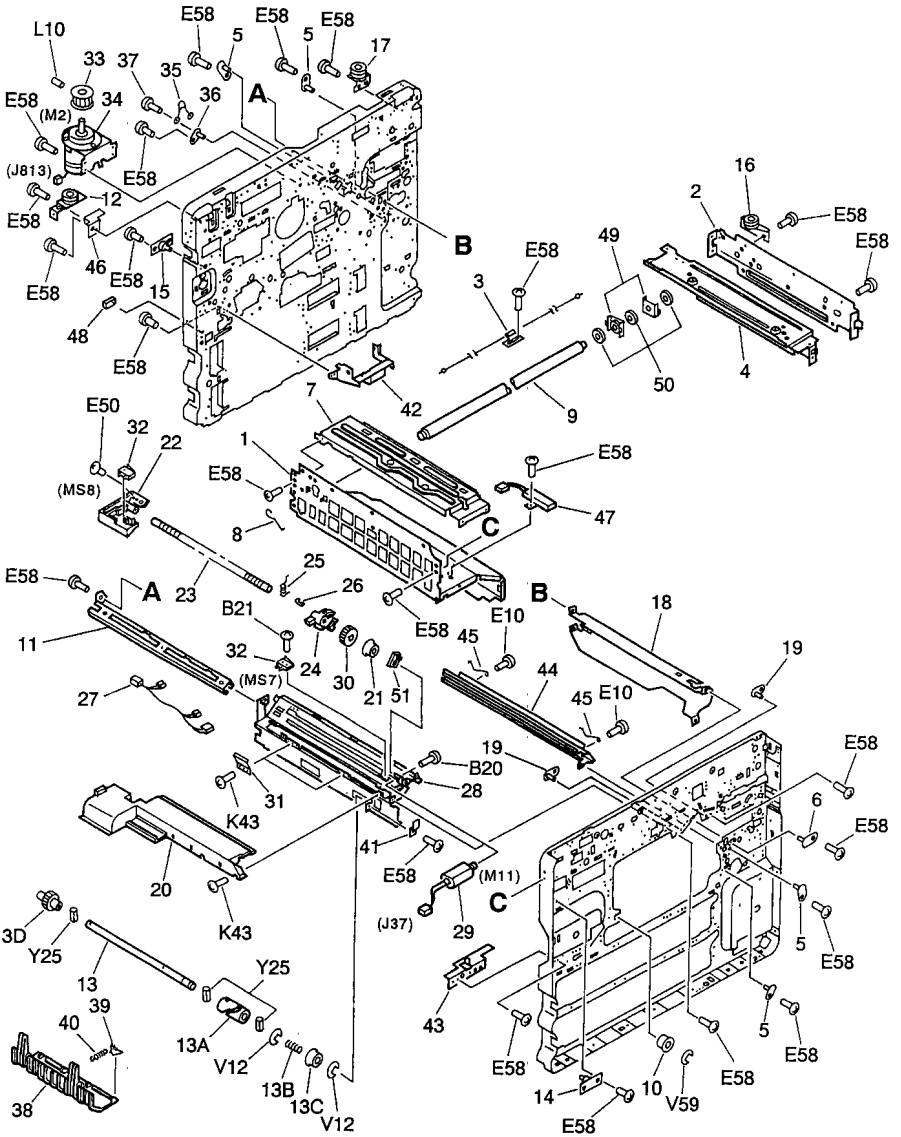

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 –	NPN		RF	INTERNAL COMPONENTS 1 ホンタイ キカイ ナイブ (1)	
1	FB1 – 6082 – 000	N	1	PLATE, LEFT ヒダリ ステー	
2	FB1 – 6083 – 000	N	1	PLATE, RIGHT ミギ ステー	
3	FB1 – 6086 – 000		1	WIRE, SCANNER コウガク ワイヤ	
4	FB1 – 6114 – 000	N	1	PLATE, RIGHT UPPER ミギ ウエ ステー	
5	FA1 – 9546 – 000		4	PIN イチギメ ダボ	
6	FA4 – 1149 – 000		1	PLATE, PIN ゼツエン ピン	
7	FB1 – 6391 – 000	N	1	CROSSMEMBER, LEFT, UPPER ヒダリ ウエ ステイ	
8	FA5 – 3114 – 000		1	PIN, RAIL レール ドメ	
9	FA5 – 3147 – 000	N	1	RAIL, SCANNER コウガク レール	
10	FS1 – 1462 – 000		1	BUSHING ブッシング	
11	FH7 – 3232 – 000		1	LAMP, PRE – COND. EXPOSURE マエ ロコウ ランプ	
12	FF5 – 1006 – 000		1	PULLEY MOUNTING プーリ ダイ	
13	FF5 – 1014 – 000		1	SHAFT, SEPARATION CLAW ブンリ ツメ ジク	
13A	FA5 – 2542 – 000		2	CAM カム	
13B	FS3 – 2071 – 000		1	SPRING, COMPRESSION アツシユク バネ	
13C	FS2 – 1357 – 000		1	BUSHING ブッシング	
13D	FS5 – 0299 – 000		1	GEAR, 38T 38T ギア	
14	FF5 – 1017 – 000		1	PIN, FRONT ハイシ トメ イタ (マエ)	
15	FF5 – 1018 – 000		1	PIN, REAR ハイシ トメ イタ (ウシロ)	
16	FF5 – 1019 – 000		1	PULLEY MOUNTING, RIGHT プーリ ダイ (ミギ)	
17	FF5 – 1025 – 000		1	PULLEY MOUNTING プーリ ダイ (キユウシ)	
18	FF2 – 0198 – 000		1	PLATE, GUIDE ガイド	
19	FF2 – 0204 – 000		2	PIN, POSITIONING イチ ギメ ピン	
20	FB1 – 5757 – 000		1	DUCT, AIR クリーナ ダクト	
21	FB1 – 5758 – 000		1	BUSHING ブッシング	
22	FB1 – 5759 – 000		1	PLATE, SHAFT HOLDING スクリユ ジクウケ	
23	FB1 – 6018 – 000		1	FEEDSCREW, CLEANER クドウ スクリユ	
24	FB1 – 6019 – 000		1	BLOCK 1 ジ ブロツク	
25	FB1 – 6015 – 000		1	PLATE, CAM カム プレート	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 – 26	FB1 – 6016 – 000		1	SPRING, TORSION ネジリ バネ	
27	FF2 – 4536 – 000		1	CABLE, CORONA ASS'Y CLEANING 1 ジセイソウ ケーブル	
28	FF5 – 0976 – 030	N	1	CROSSMEMBER, DRUM, UPPER ドラム ウエ ステー	
29	FH7 – 1727 – 000		1	MOTOR, DC24V モータ	
30	FS3 – 0812 – 000		1	GEAR, 18T 18T ギア	
31	FA5 – 3132 – 000		2	SPRING, LEAF イタ バネ	
32	WC4 – 0084 – 000		2	MICROSWITCH マイクロ スイツチ	
33	FA5 – 3113 – 000		1	PULLEY プーリ	
34	FH7 – 1760 – 000		1	MOTOR, DC20V モータ	
35	FF2 – 6369 – 000		1	VARISTOR バリスタ	
36	FA2 – 6923 – 000		1	PIN イチギメ ダボ	
37	XA9 – 0194 – 000		1	SCREW, W/TOOTHED WASHER, M3X6 キクザツキ バインドネジ	
38	FF2 – 0124 – 020		1	HOLDER, SEPARATION CLAW ブンリツメ ホルダ	
39	FA3 – 8577 – 030		4	CLAW, SEPARATION ブンリ ツメ	
40	FS2 – 2304 – 000		4	SPRING, TENSION ヒツパリ バネ	
41	FB1 – 6052 – 000		1	PLATE, STOPPER ブンリツメ ジク ストツパ	
42	FB1 – 6096 – 000		1	SUPPORT, FIXING UNIT, REAR テイチヤク シダイ (ウシロ)	
43	FB1 – 6097 – 000		1	SUPPORT, FIXING UNIT, FRONT テイチヤク シダイ (マエ)	
44	FA5 – 2552 – 000		1	RAIL, PRE – TRANS. CORONA ASS'Y タイデンキ マエ レール	
45	FA3 – 9115 – 000		2	SPRING, CORONA ポスト タイデンキ バネ	
46	FB1 – 6090 – 000		1	PLATE, PULLEY ADJUST, B プーリ チヨウセイ バン (B)	
47	FH7 – 4300 – 000		1	HEATER, AC100V ヒータ	100V
48	WT2 – 5098 – 000		1	BUSHING ブッシング	
49	FA5 – 3244 – 000		2	MOUNT, RING FELT, PL パッド ダイ	
50	FA3 – 8493 – 000		3	RING, FELT オイルパツド	
51	FB1 – 5760 – 000		1	HOLDER, BUSHING ジクウケ ホルダ	

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FIGURE 103 INTERNAL COMPONENTS 2
本体機械内部 (2)

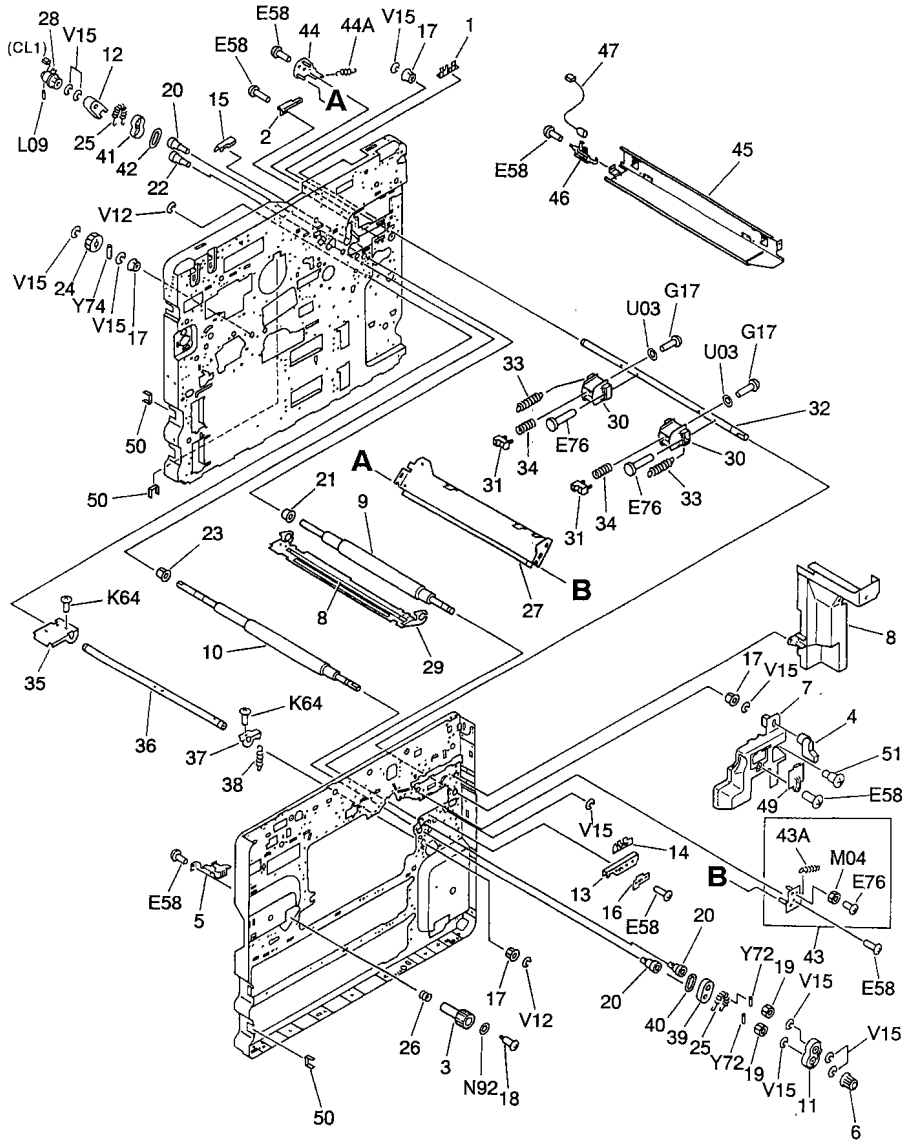

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
103 –	NPN		RF	INTERNAL COMPONENTS 2 ホンタイ キカイ ナイブ (2)	
1	FB1 – 6092 – 020		1	SLIDE GUIDE, RAIL, REAR, UPPER レールスライド ガイド (ウシロ ウエ)	
2	FB1 – 6093 – 000		1	SLIDE GUIDE, RAIL, REAR, LOWER レールスライドガイド (ウシロ シタ)	
3	FB1 – 6094 – 000		1	KNOB, FIXING ROLLER テイチヤク トツテ	
4	FB1 – 6095 – 000		1	LEVER カアツ レバー	
5	FB1 – 6121 – 000		1	SUPPORT, DELIVERY UNIT ハイシ ササエ イタ	
6	FB1 – 6138 – 000		1	KNOB ツマミ	
7	FB1 – 6144 – 000		1	COVER, LOWER, RIGHT ウチ カバー (ミギ シタ)	
8	FB1 – 6145 – 000		1	COVER, UPPER, RIGHT ウチ カバー (ミギ ウエ)	
9	FA5 – 3119 – 000		1	ROLLER, REGISTRATION, UPPER ウエ レジスト ローラ	
10	FA5 – 3120 – 000		1	ROLLER, REGISTRATION, LOWER シタ レジスト ローラ	
11	FA5 – 3121 – 000		1	PLATE, REGISTRATION ROLLER レンケツ バン	
12	FA5 – 3140 – 000		1	MOUNT, REGISTRATION ROLLER ヨコ レジスト ラツク	
13	FB1 – 6180 – 000		1	GUIDE, RAIL SLIDE 1 レール スライド ガイド 1	
14	FB1 – 6181 – 000		1	GUIDE, RAIL SLIDE 2 レール スライド ガイド 2	
15	FA5 – 3205 – 000		1	GUIDE, RAIL SLIDE 3 レール スライド ガイド 3	
16	FA9 – 1913 – 000		1	PLATE, STOPPER ゲンゾウ レール ストツパ	
17	FS1 – 1202 – 000		4	BUSHING ブツシング	
18	FS1 – 9102 – 000		1	SCREW, STEPPED, M3 ダンビス	
19	FS2 – 0448 – 000		2	GEAR, 32T 32T ギア	
20	FS2 – 1001 – 000		3	BUSHING ジク ウケ	
21	FS2 – 1002 – 000		1	BUSHING ジク ウケ	
22	FS2 – 1015 – 000		1	BUSHING ブツシュ	
23	FS2 – 6022 – 000		1	BUSHING ブツシング	
24	FS3 – 0074 – 000		1	GEAR, 25T 25T ギア	
25	FS3 – 2018 – 000		2	SPRING, TENSION ヒツパリ バネ	
26	FS3 – 2036 – 000		1	SPRING, COMPRESSION アツシユク バネ	
27	FH7 – 3229 – 000		1	LED ARRAY, PD3135C1A LED アレイ	
28	FH7 – 5252 – 000		1	CLUTCH, ELECTROMAGNETIC デンジ クラツチ	
29	FF2 – 0207 – 050		1	PLATE, PAPER GUIDE, UPPER テンシャ ガイド (ウエ)	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
103 – 30	FB1 – 6167 – 000		2	HOLDER, CAM カム ホルダ	
31	FB1 – 6170 – 000		2	CAM カアツ カム	
32	FB1 – 6171 – 000		1	SHAFT カアツ ジク	
33	FS3 – 2075 – 000		2	SPRING, TENSION ゲンゾウ モドシ バネ (マエ)	
34	FS5 – 2260 – 000		4	SPRING, COMPRESSION アツシユク バネ	
35	FA5 – 2646 – 000		1	PLATE, ARM アーム	
36	FB1 – 6060 – 000		1	SHAFT アーム ジク	
37	FA5 – 2648 – 000		1	ARM バネ アーム	
38	FS3 – 2030 – 000		1	SPRING, TENSION ヒツパリ バネ	
39	FA5 – 3213 – 000		1	CASE, OIL, FRONT オイル ケース (マエ)	
40	FA5 – 3215 – 000		1	PAD, OIL オイル パツド	
41	FA5 – 3214 – 020		1	CASE, OIL, REAR オイル ケース (ウシロ)	
42	FA5 – 3216 – 000		1	PAD, OIL オイル パツド	
43	FG9 – 2764 – 000		1	HOLDER, BLANK EXP. LAMP, FRONT ブランク マエ シバン	
43A	FS3 – 2037 – 000		1	SPRING, COMPRESSION アツシユク バネ	
44	FG9 – 2765 – 000		1	HOLDER, BLANK EXP. LAMP, REAR ブランク ウシロ シバン	
44A	FS3 – 2073 – 000		1	SPRING, TENSION ヒツパリ バネ	
45	FB1 – 6033 – 000		1	RAIL, DEVELOPING ASS'Y ゲンゾウキ レール	
46	FB1 – 6034 – 000		1	TERMINAL, BIAS バイアス コネクタ	
47	FF2 – 5892 – 000		1	CABLE, BIAS. B. DEV. UNIT クロ ゲン バイアス ソクセン	
49	FB1 – 6173 – 000		1	WINDOW マド	
50	WT2 – 5086 – 000		6	HOLDER, EDGE エッジ ホルダ	
51	FS1 – 9255 – 000		1	SCREW, STEPPED, M4 ダンピス	

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FIGURE 104 INTERNAL COMPONENTS 3
本体機械内部 (3)

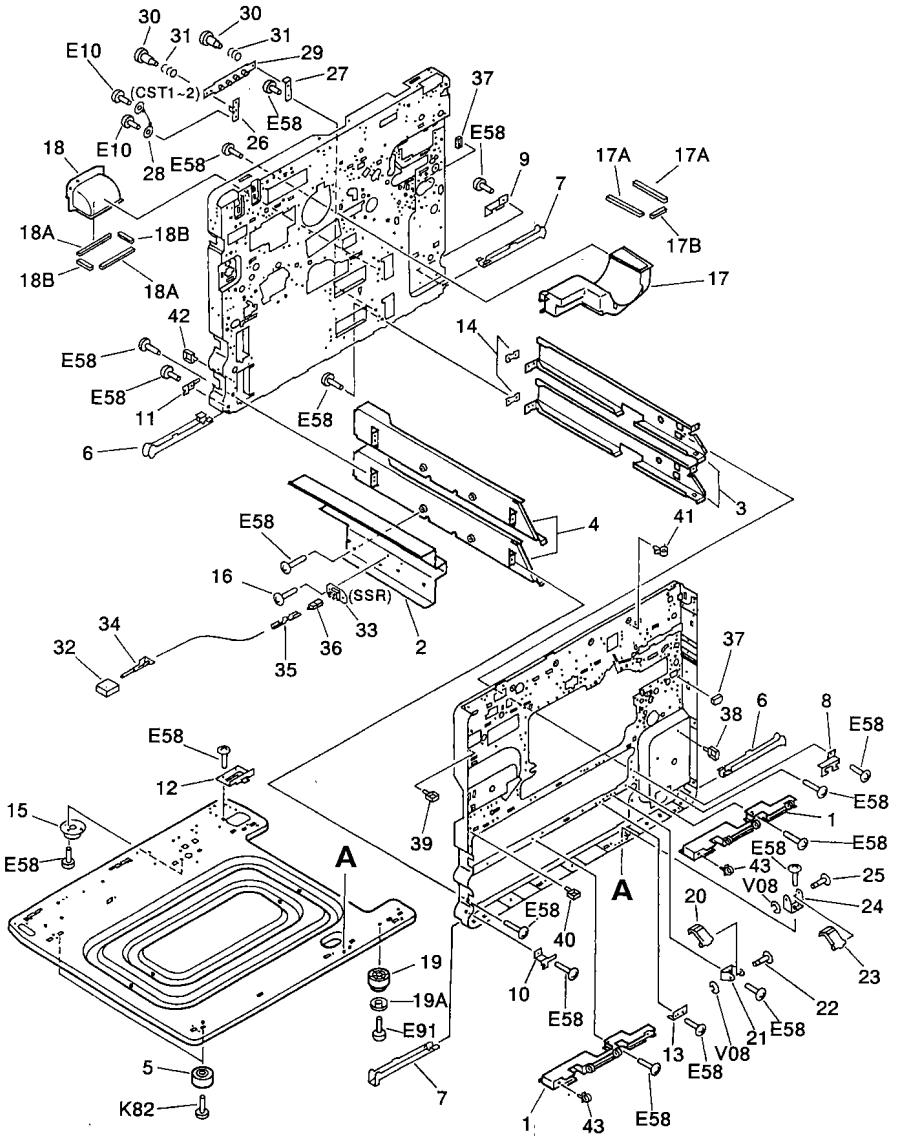

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
104 –	NPN		RF	INTERNAL COMPONENTS 3 ホンタイ キカイ ナイブ (3)	
1	FB1 – 6099 – 000		2	GUIDE, CORD コード ガイド	
2	FB1 – 6100 – 000		1	PLATE, RELAY MOUNTING リレー トリツケ バン	
3	FB1 – 6135 – 000	N	2	GUIDE, CASSETTE, RIGHT カセツト ステー (ミギ)	
4	FB1 – 6136 – 000	N	2	GUIDE, CASSETTE, LEFT カセツト ステー (ヒダリ)	
5	FA3 – 1589 – 000		2	FOOT, RUBBER ゴム アシ	
6	FA5 – 3148 – 020		2	HANDLE A トツテ A	
7	FA5 – 3149 – 020		2	HANDLE B トツテ B	
8	FA5 – 3150 – 020		1	PLATE, STOPPER, HANDLE A トッテ オサエ A	
9	FA5 – 3151 – 020		1	PLATE, STOPPER, HANDLE B トッテ オサエ B	
10	FA5 – 3152 – 000		1	PLATE, STOPPER, HANDLE C トツテ オサエ C	
11	FA5 – 3153 – 000		1	PLATE, STOPPER, HANDLE D トツテ オサエ D	
12	FA5 – 3161 – 000		1	PLATE, BLANKING, PAPER DECK ペーパ デツキ メカクシ バン	
13	FA5 – 3184 – 000		2	PLATE, CASSETTE POSITIONING カセツト イチ ギメ バン	
14	FA5 – 3190 – 000		2	SPACER スペーサ	
15	FA5 – 3236 – 000		1	GUIDE, PIN ピン ガイド	
16	XA9 – 0235 – 000		2	SCREW, W/WASHER, M3X8 バネツキ ネジ	
17	FF5 – 1009 – 000		1	DUCT, PRI. CORONA UNIT 1 ジ レンケツ ダクト	
17A	FB1 – 6102 – 000		2	SEAL, 1 シール (1)	
17B	FB1 – 6103 – 000		1	SEAL, 2 シール (2)	
18	FF5 – 1010 – 000		1	DUCT, FEEDER UNIT ハンソウ チユウカン ダクト	
18A	FB1 – 6105 – 000		2	SEAL, 1 シール (1)	
18B	FB1 – 6127 – 000		2	SEAL, 2 シール (2)	
19	FF9 – 0983 – 000		1	FOOT, RUBBER ゴム アシ	
19A	FA9 – 1790 – 000		1	RUBBER ラバー	
20	FA5 – 3181 – 000		1	ARM, GUIDE RELEASE ガイド カイジヨ アーム	
21	FA5 – 3182 – 000		1	MOUNT, ARM, UPPER アーム ダイ (ウエ)	
22	FA3 – 8719 – 000		1	ROD サイド キセイ ジク	
23	FA5 – 3181 – 000		1	ARM, GUIDE RELEASE ガイド カイジヨ アーム	
24	FA5 – 3183 – 000		1	MOUNT, ARM, LOWER アーム ダイ (シタ)	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
104 – 25	FA3 – 8719 – 000		1	ROD サイド キセイ ジク	
26	FA9 – 1978 – 000		1	MOUNT, PAPER SIZE SENSING, 2 サイズ ケンチ キダイ (2)	
27	FA9 – 1979 – 000		1	MOUNT, PAPER SIZE SENSING, 1 サイズ ケンチ キダイ (1)	
28	FF9 – 1091 – 020		1	WIRE, GROUNDING アース コード	
29	FH7 – 6113 – 000		1	PUSH SWITCH ASSEMBLY カセツト サイズ ケンチ スイッチ	
30	FS2 – 9002 – 000		2	SCREW, STEPPED, M4 ダン ビス	
31	FS3 – 2044 – 000		2	SPRING, COMPRESSION アツシユク バネ	
32	VS4 – 0003 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
33	WB4 – 5006 – 000		1	SSR,SF15DXZ – HI – 0 SSR	
34	WS3 – 0885 – 000		2	PIN CONTACT, 20 – 30AWG ピン コンタクト	
35	WT1 – 0040 – 000		2	SOCKET, FASTON 187, 20 – 24AWG フアストン	
36	WT1 – 0435 – 000		2	SLEEVE ワンタツチ スリーブ	
37	WT2 – 5062 – 000		2	BUSHING, SQUARE スクエア ブッシュ	
38	WT2 – 0317 – 000		9	CLIP, CABLE ロツキング ワイヤ サドル	
39	WT2 – 0499 – 000		1	CLIP, CABLE ロッキング ワイヤ サドル	
40	WT2 – 0248 – 000		13	CLIP, CABLE ケーブル クリップ	
41	WT2 – 5048 – 000		8	CLAMP, CORD コード クランプ	
42	WT2 – 0481 – 000		2	CLIP, CABLE ケーブル クリップ	
43	WT2 – 5041 – 000		9	TIE, CABLE ソクセン バンド	

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FIGURE 105 MACHINE REAR PLATE
本体後側板

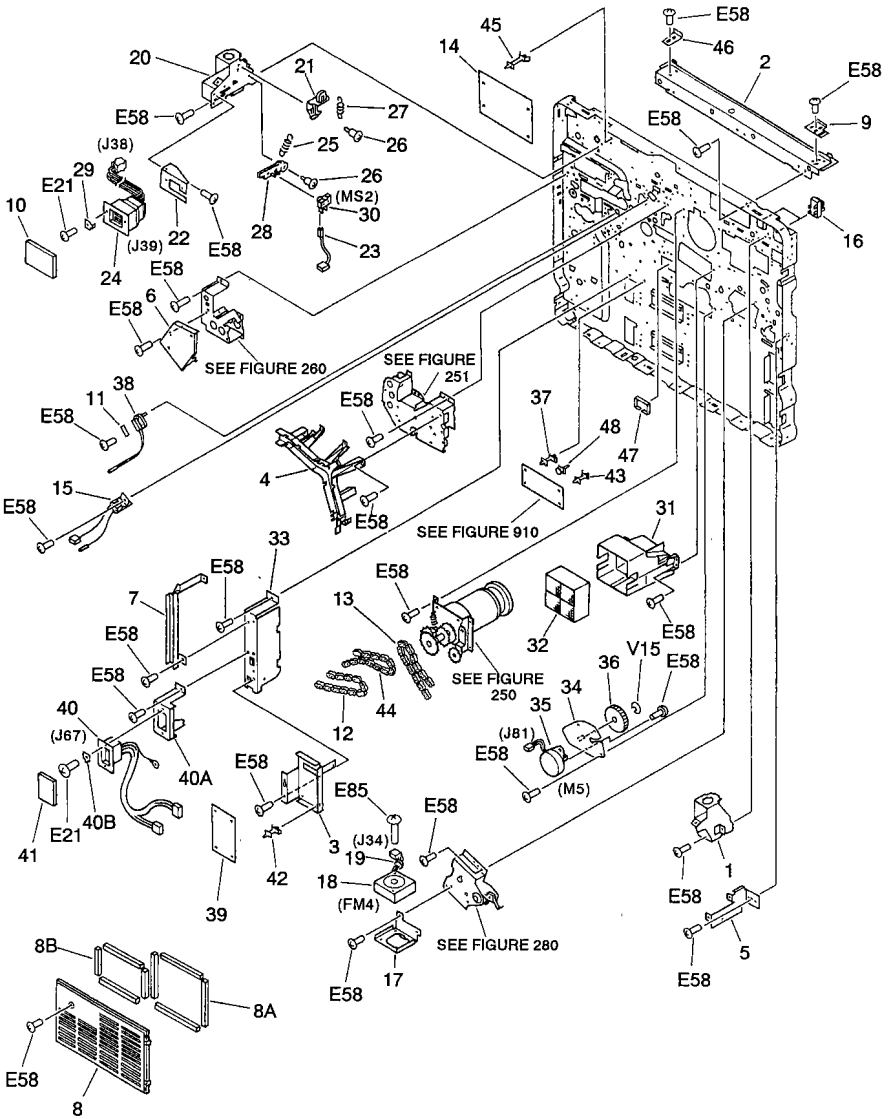

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
105 –	NPN		RF	MACHINE REAR PLATE ホンタイ ウシロ ソクバン	
1	FB1 – 6085 – 000		1	MOUNT, DF, 1 DF ダイ (1)	
2	FB1 – 6399 – 000		1	CROSSMEMBER, UPPER, REAR ガラス オサエ (ウシロ)	
3	FB1 – 6091 – 000		1	MOUNT, PCB キバン ダイ	
4	FB1 – 6098 – 000		1	GUIDE, CABLE ケーブル ガイド	
5	FF5 – 1005 – 000		1	PLATE, APC APC シバン	
6	FB1 – 6117 – 000		1	COVER, CHAIN チエーン カバー	
7	FB1 – 6124 – 000		1	GUIDE, CABLE ケーブル ガイド	
8	FF5 – 1030 – 000		1	COVER, FILTER フイルタ カバー	
8A	FB1 – 6070 – 000		4	SEAL 1 フイルタ カバー シール 1	
8B	FB1 – 6156 – 000		4	SEAL 2 フイルタ カバー シール 2	
9	FB1 – 6400 – 000		1	PLATE, GLASS POSITONING, REAR ウシロ ガラス ドメ	
10	FH2 – 5824 – 000		1	COVER, CONNECTOR, 1 コネクタ カバー (1)	
11	FS3 – 8377 – 000		1	LABEL, "WARNING, HIGH VOLTAGE" コウアツ チユウイ メイハン	
12	XF9 – 0368 – 000		1	CHAIN, 204T チエーン	
13	XF1 – 1107 – 001		1	CHAIN,ROLLER ローラ チェーン	
14	FH6 – 3199 – 000		1	MOTOR CONTROLLER PCB モータ コントローラ キバン	
15	FH2 – 9091 – 000		1	CABLE UNIT, HV, PRIMARY/GRID コウアツ コネクタ	
16	FH7 – 7062 – 000		2	PHOTO – INTERRUPTER フオト インタラプタ	
17	FB1 – 5892 – 000		1	MOUNT, FAN ファン シジバン	
18	FH7 – 1777 – 000		1	FAN, DC24V ファン モータ	
19	WT2 – 0435 – 000		1	CLAMP, CORD コードクランプ	
20	FB1 – 5991 – 000		1	MOUNT, DF 2 DF ダイ (2)	
21	FB1 – 6008 – 000		1	LEVER, SENSING ケンチ レバー	
22	FB1 – 6110 – 000		1	MOUNT, DF CONNECTOR DF コネクタ ダイ	
23	FF2 – 5896 – 000		1	CABLE ソクセン	
24	FF2 – 6370 – 000		1	CONNECTOR, DF DF コネクタ	
25	FS1 – 2709 – 000		1	SPRING, TENSION ヒツパリ バネ	
26	FS1 – 9004 – 000		3	SCREW, STEPPED, M4 ダンピス	
27	FS2 – 2351 – 000		1	SPRING, TENSION ヒツパリ バネ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
105 – 28	FA3 – 9109 – 000		1	MOUNT, MICROSWITCH ホルダ	
29	FA7 – 0242 – 000		1	PLATE, GROUNDING アース バン	
30	WC4 – 0138 – 000		1	MICROSWITCH マイクロ スイツチ	
31	FB1 – 6043 – 000		1	DUCT, FILTER フイルタ ダクト	
32	FB1 – 6044 – 000		1	FILTER, OZONE オゾン フイルタ	
33	FB1 – 6172 – 000		1	MOUNT, HVT HVT トリツケ バン	
34	FF5 – 1028 – 000		1	MOUNT, MOTOR モータ シジバン	
35	FH7 – 1775 – 000		1	MOTOR, DC24V ステツピング モータ	
36	FS2 – 0578 – 000		1	GEAR, 49T 49T ギア	
37	VT2 – 0001 – 008		2	SUPPORT, PCB ロツキング サポート	
38	FF2 – 4558 – 000		1	P CONNECTOR P コネクタ	
39	FH3 – 7119 – 020		1	LAMP REGULATOR ランプ レギュレータ	100/115V
	FH3 – 7120 – 020		1	LAMP REGULATOR ランプ レギュレータ	220/240V
40	FF2 – 5884 – 000		1	CABLE, DECK/MULTI マルチ/デツキ ソクセン	
40A	FB1 – 6111 – 000		1	MOUNT, CONNECTOR, DECK デツキ コネクタ ダイ	
40B	FA7 – 0242 – 000		1	PLATE, GROUNDING アース バン	
41	FH2 – 5831 – 000		1	COVER, CONNECTOR 2 コネクタ カバー (2)	
42	VT2 – 0001 – 004		6	SUPPORT, PCB ロツキング サポート	
43	VT2 – 0001 – 010		2	SUPPORT, PCB ロツキング サポート	
44	XF9 – 0385 – 000		1	CHAIN, ROLLER, 114T ローラ チエーン	
45	VT2 – 0001 – 012		4	SUPPORT, PCB ロツキング サポート	
46	FA5 – 3187 – 020		1	PLATE, GLASS POSITONING, REAR ウシロ ガラス ドメ	
47	WT2 – 5061 – 000		1	SUPPORT, CABLE スクエア ブツシュ	
48	VT2 – 0002 – 010		2	SPACER, PCB PCB スペーサ	

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FIGURE 110 POWER CORD TERMINAL ASSEMBLY (100V)
電源コード台部（100V）

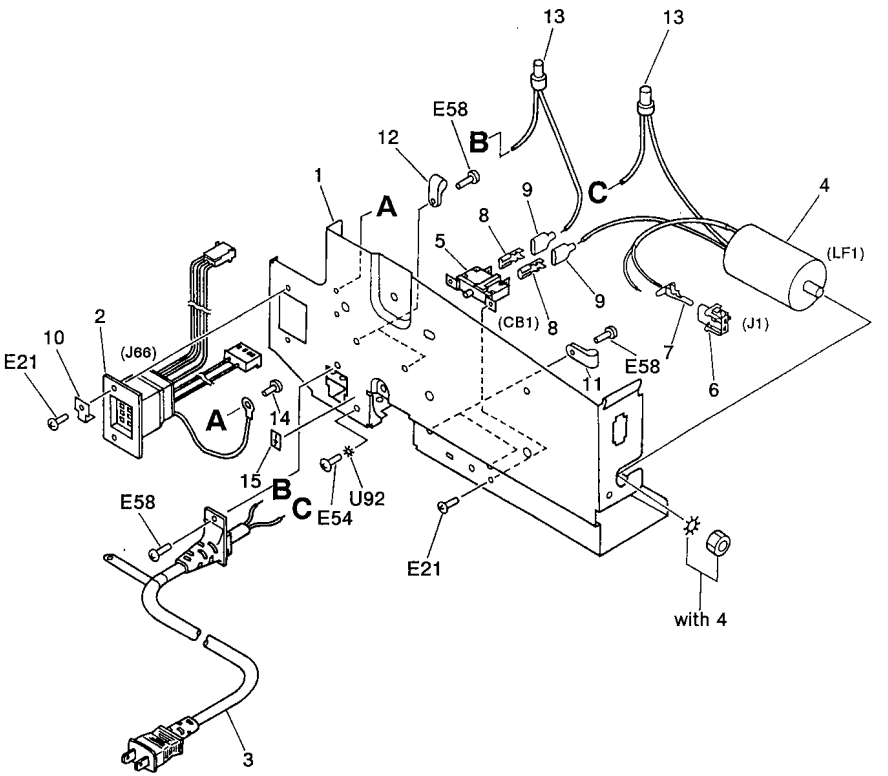

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
110 –	NPN		RF	POWER CORD TERMINAL ASSEMBLY デンゲン コード ダイ ブ	100V
1	FB1 – 5946 – 000		1	MOUNT, CORD コード ダイ	
2	FF2 – 6371 – 000		1	CONNECTOR, SORTER ソータ コネクタ	
3	FH2 – 5704 – 000		1	CORD, POWER, 125V 15A デンゲン コード	
4	FH7 – 9217 – 000		1	FILTER, NOISE ノイズ フイルタ	
5	WD3 – 0104 – 000		1	BREAKER, CIRCUIT サーキツト ブレーカ	
6	WS4 – 0060 – 000		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
7	WS4 – 0073 – 000		2	SOCKET, CONTACT, 14 – 20AWG ソケツト コンタクト	
8	WT1 – 0143 – 000		2	SOCKET, FASTON 205, 14 – 18AWG フアストン	
9	WT1 – 0171 – 000		2	SLEEVE, FASTON 205 フアストン スリーブ	
10	FA7 – 0242 – 000		1	PLATE, GROUNDING アース バン	
11	X62 – 6866 – 000		2	CLAMP クランプ	
12	X62 – 6863 – 000		2	CLAMP, CABLE, 5N コード オサエ	
13	X62 – 9153 – 000		2	SPLICE, CLOSED END ヘイタン タンシ	
14	XA9 – 0265 – 000		1	SCREW, W/WASHER, TRUSS HEAD ザツキ バインド ネジ	
15	FA2 – 5438 – 000		1	LABEL, "GROUND" アース ラベル	

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FIGURE 111 POWER CORD TERMINAL ASSEMBLY (115V)
電源コード台部（115V）

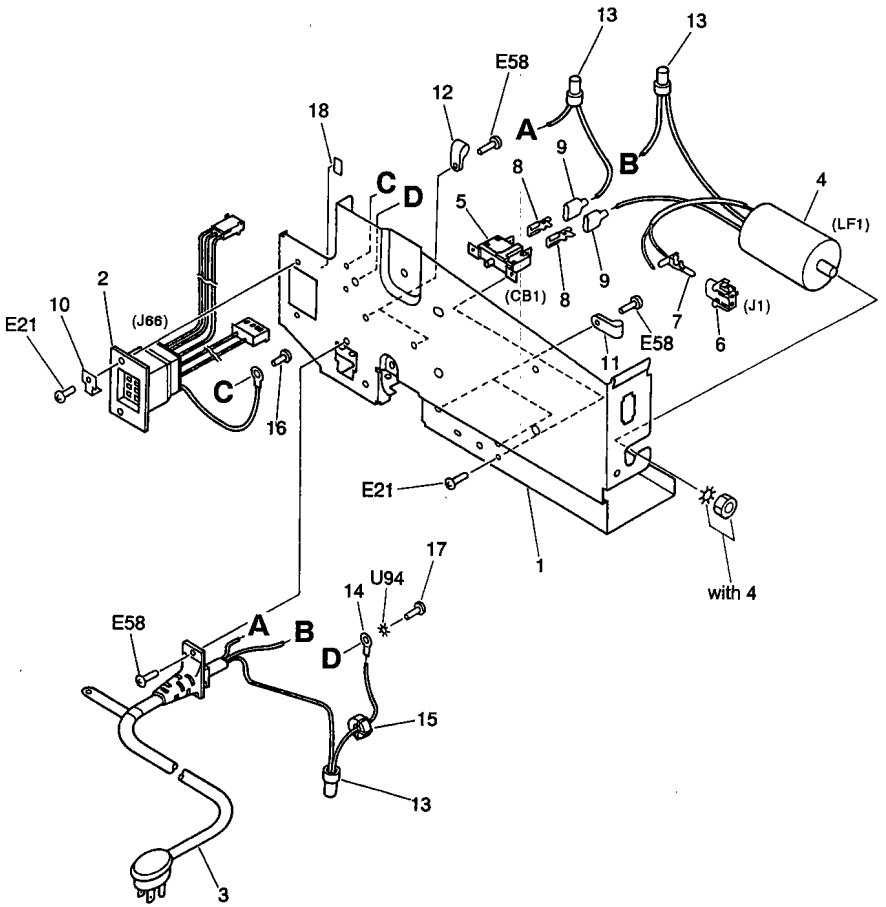

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
111 –	NPN		RF	POWER CORD TERMINAL ASSEMBLY デンゲン コード ダイ ブ	115V
1	FB1 – 5946 – 000		1	MOUNT, CORD コード ダイ	
2	FF2 – 6371 – 000		1	CONNECTOR, SORTER ソータ コネクタ	
3	FH2 – 5740 – 000		1	CORD, POWER デンゲン コード	
4	FH7 – 9217 – 000		1	FILTER, NOISE ノイズ フイルタ	
5	WD3 – 0104 – 000		1	BREAKER, CIRCUIT サーキツト ブレーカ	
6	WS4 – 0060 – 000		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
7	WS4 – 0073 – 000		2	SOCKET, CONTACT, 14 – 20AWG ソケツト コンタクト	
8	WT1 – 0143 – 000		2	SOCKET, FASTON 205, 14 – 18AWG ファストン	
9	WT1 – 0171 – 000		2	SLEEVE, FASTON 205 ファストン スリーブ	
10	FA7 – 0242 – 000		1	PLATE, GROUNDING アース バン	
11	X62 – 6866 – 000		2	CLAMP クランプ	
12	X62 – 6863 – 000		2	CLAMP, CABLE, 5N コード オサエ	
13	X62 – 9153 – 000		3	SPLICE, CLOSED END ヘイタン タンシ	
14	X66 – 6670 – 000		1	TERMINAL, RING マルガタ タンシ	
15	WE8 – 0019 – 000		1	INDUCTOR, SNG 19A – 080 インダクタ	
16	XA9 – 0265 – 000		1	SCREW, W/WASHER, TRUSS HEAD ザツキ バインド ネジ	
17	XB1 – 2600 – 603		1	SCREW,MACH.,TRUSS HEAD,M6X6 バインド ネジ	
18	FA2 – 5438 – 000		1	LABEL, "GROUND" アース ラベル	

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FIGURE 112 POWER CORD TERMINAL ASSEMBLY (220/240V)
電源コード台部 (220／240V)

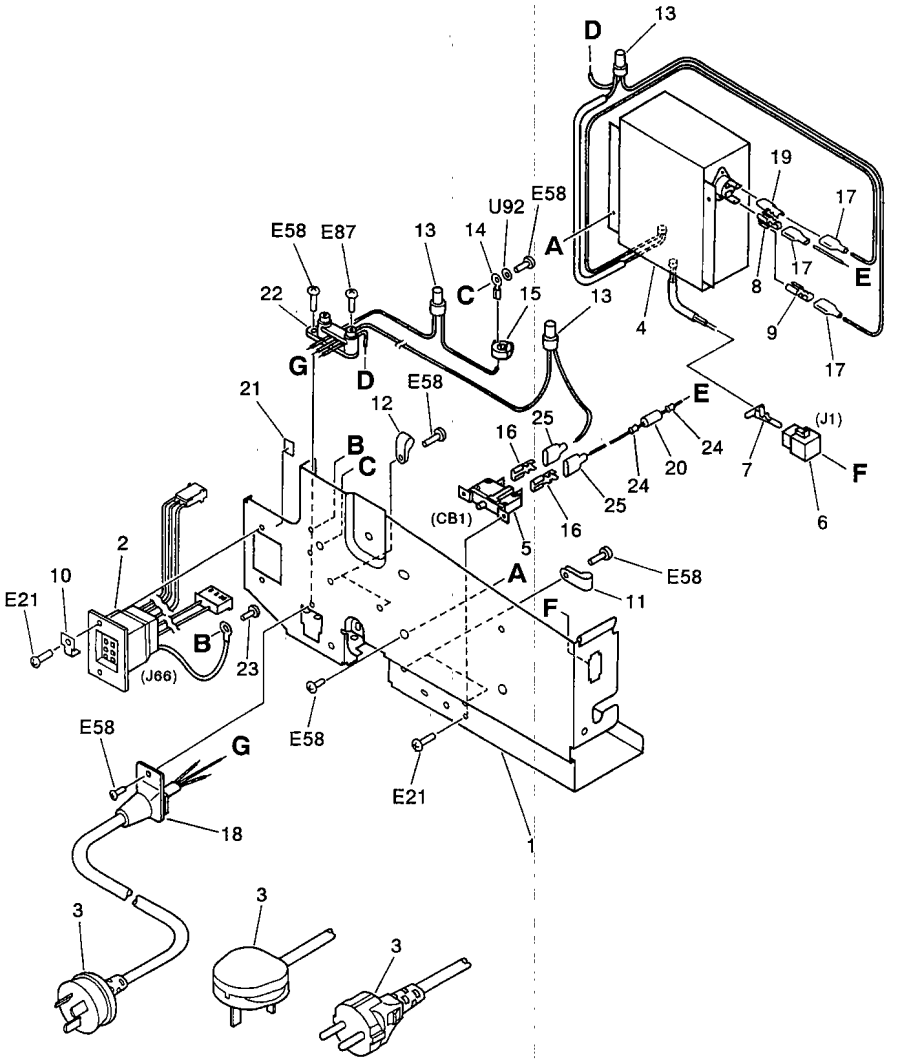

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
112 –	NPN		RF	POWER CORD TERMINAL ASSEMBLY デンゲン コード ダイ ブ	220/240V
1	FB1 – 5946 – 000		1	MOUNT, CORD コード ダイ	
2	FF2 – 6371 – 000		1	CONNECTOR, SORTER ソータ コネクタ	
3	FH2 – 5732 – 000		1	CORD, POWER, 250V 10A デンゲン コード	220V
	FH2 – 5733 – 000		1	CORD, POWER, 250V 13A デンゲン コード	F12 – 7451
	FH2 – 5734 – 000		1	CORD, POWER, 250V 10A デンゲン コード	F12 – 7461
4	FH7 – 9207 – 000		1	FILTER, NOISE ノイズ フイルタ	
5	WD3 – 0125 – 000		1	CIRCUIT BREAKER サーキット ブレーカ	
6	WS4 – 0060 – 000		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
7	WS4 – 0073 – 000		2	SOCKET, CONTACT, 14 – 20AWG ソケツト コンタクト	
8	WT1 – 0146 – 000		1	SOCKET, FASTON 14 – 18AWG フアストン	
9	WT1 – 0579 – 000		1	RECEPTACLE リセプタクル	
10	FA7 – 0242 – 000		1	PLATE, GROUNDING アース バン	
11	X62 – 6866 – 000		2	CLAMP クランプ	
12	X62 – 6863 – 000		2	CLAMP, CABLE, 5N コード オサエ	
13	X62 – 9153 – 000		3	SPLICE, CLOSED END ヘイタン タンシ	
14	WT1 – 0237 – 000		1	TERMINAL, RING マルガタ タンシ	
15	WE8 – 0019 – 000		1	INDUCTOR, SNG 19A – 080 インダクタ	
16	X62 – 5316 – 000		2	SOCKET, FASTON 187, 16 – 20AWG フアストン	
17	WT1 – 0023 – 000		3	SLEEVE, FASTON 250 フアストン スリーブ	
18	WT2 – 0178 – 000		1	RELIEF, STRAIN コード ブツシユ	
19	WT1 – 0017 – 000		1	SOCKET, FASTON 250, 16 – 20AWG フアストン	
20	VR2 – 8035 – 393		1	RESISTOR, 39KOHM, 3W テイコウ	
21	FA2 – 5438 – 000		1	LABEL, "GROUND" アース ラベル	
22	FH2 – 5043 – 000		1	CLAMP, POWER CORD コード クリツプ	
23	XA9 – 0265 – 000		1	SCREW, W/WASHER, TRUSS HEAD ザツキ バインド ネジ	
24	WT1 – 0305 – 000		2	TERMINAL セツゾク タンシ	
25	WT1 – 0041 – 000		2	SLEEVE, FASTON 187 フアストン スリーブ	

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FIGURE 120 WASTE TONER SENSOR ASSEMBLY
廃トナー検知部

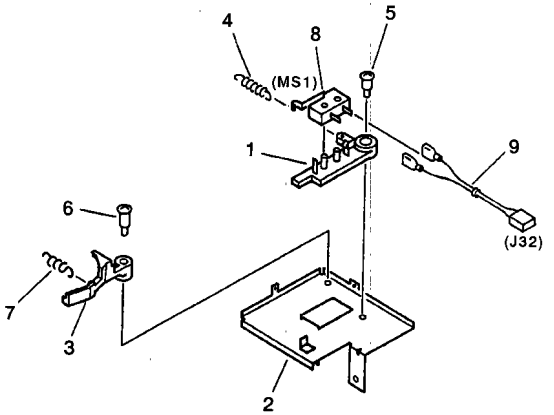

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
120 –	FG5 – 1350 – 000	N	1	WASTE TONER SENSOR ASSEMBLY ハイ トナー ケンチ ブ	
1	FA3 – 9109 – 000		1	MOUNT, MICROSWITCH ホルダ	
2	FA5 – 2556 – 000		1	PLATE, SENSOR プレート	
3	FA5 – 2557 – 000		1	LEVER レバー	
4	FS1 – 2951 – 000		1	SPRING, TENSION ヒツパリ バネ	
5	FS1 – 9004 – 000		1	SCREW, STEPPED, M4 ダンビス	
6	FS1 – 9051 – 000		1	SCREW, STEPPED, M3 ダンビス	
7	FS3 – 2022 – 000		1	SPRING, TENSION ヒツパリ バネ	
8	WC4 – 0138 – 000		1	MICROSWITCH マイクロ スイツチ	
9	FF2 – 6940 – 000		1	CABLE ソクセン	

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FIGURE 130 CONTROL PANEL ASSEMBLY
操作部

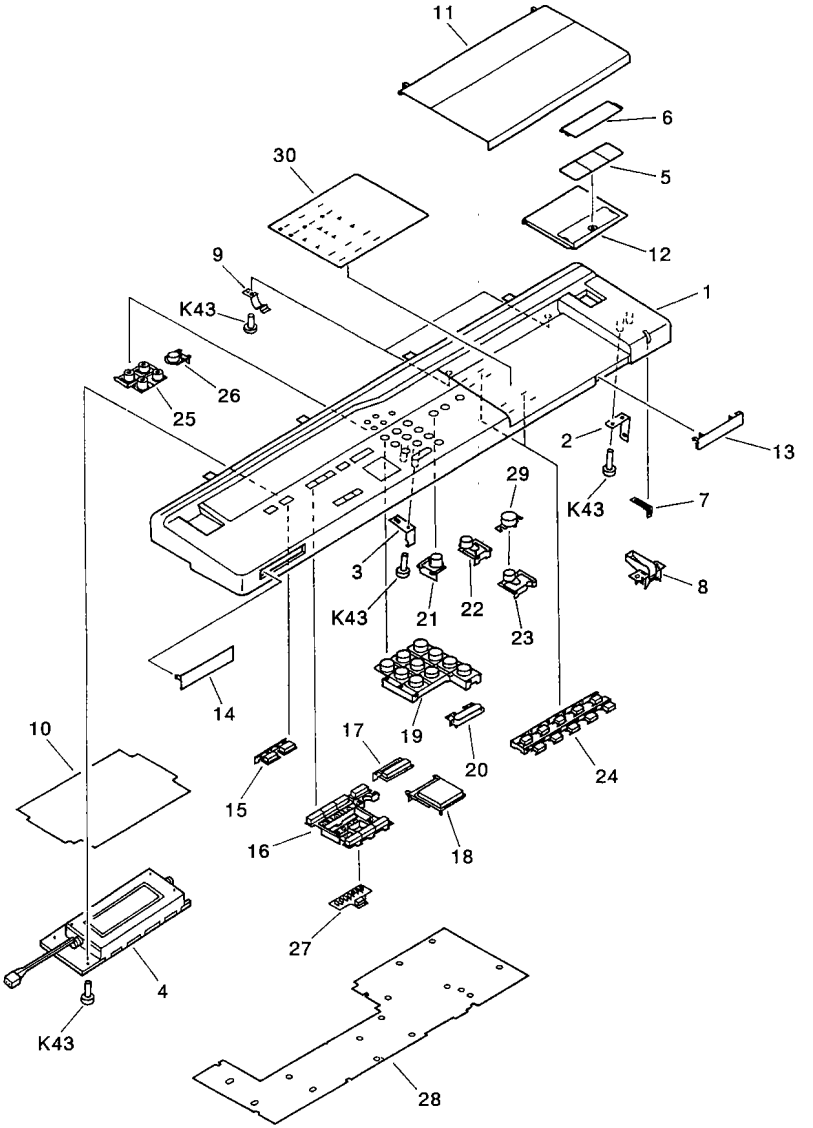

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
130 –	FG5 – 1248 – 000		1	CONTROL PANEL ASSEMBLY ソウサ ブ	JAPANESE
	FG5 – 1249 – 000		1	CONTROL PANEL ASSEMBLY ソウサ ブ	ENGLISH 115V
	FG5 – 1250 – 000		1	CONTROL PANEL ASSEMBLY ソウサ ブ	ENGLISH 220V/240V
	FG5 – 1251 – 000		1	CONTROL PANEL ASSEMBLY ソウサ ブ	ILLUSTRATION
1	FH6 – 0412 – 000		1	PANEL, CONTROL ソウサ パネル	JAPANESE
	FH6 – 0413 – 000		1	PANEL, CONTROL ソウサ パネル	ENGLISH 115V
	FH6 – 0414 – 000		1	PANEL, CONTROL ソウサ パネル	ENGLISH 220V/240V
	FH6 – 0415 – 000		1	PANEL, CONTROL ソウサ パネル	ILLUSTRATION
2	FA5 – 3154 – 000		1	HOOK, CONTROL PANEL ソウサブ フツク	
3	FA5 – 3155 – 000		1	HOOK, CONTROL PANEL ソウサブ フツク	
4	FH6 – 3247 – 000		1	LIQUID CRYSTAL DISPLAY PANEL エキショウ ソウサ ブ	
5	FB1 – 5896 – 000		1	LABEL ラベル	
6	FB1 – 5897 – 000		1	SHEET シート	
7	FB1 – 5899 – 000		1	PANEL, B パネライト (B)	
8	FB1 – 5900 – 000		1	PLATE ハンシャ バン	
9	FB1 – 5901 – 000		1	SPRING, LEAF イタ バネ	
10	FB1 – 5902 – 000		1	SHEET シート	
11	FB1 – 5893 – 000		1	COVER カバー	
12	FB1 – 5894 – 000		1	COVER フタ	
13	FB1 – 5895 – 000		1	CAP, CCV キャップ (CCV)	
14	FB1 – 5898 – 000		1	CAP, IC キャップ (IC)	
15	FB1 – 9302 – 000		1	KEY TOP, APC APC ボタン	
16	FB1 – 9303 – 000		1	KEY TOP,SCALE/DENSITY/CASSETTE シャクド/ノウド/カセット ボタン	
17	FB1 – 9304 – 000		1	KEY TOP, RESET リセット ボタン	
18	FB1 – 9305 – 000		1	KEY TOP, START スタート ボタン	
19	FB1 – 9306 – 000		1	KEY TOP, TEN KEY テンキー ボタン	
20	FB1 – 9307 – 000		1	KEY TOP, CLEAR/STOP クリア/ストップ ボタン	
21	FB1 – 9308 – 000		1	KEY TOP, CODE アンショウ ボタン	
22	FB1 – 9309 – 000		1	KEY TOP, WEDGE ワリコミ ボタン	
23	FB1 – 9310 – 000		1	KEY TOP, PREHEAT ヨネツ ボタン	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
130 – 24	FB1 – 9311 – 000		2	KEY TOP, APPLICATION MODE オウヨウ モード ボタン	
25	FB1 – 9312 – 000		1	KEY TOP, CURSOR カーソル ボタン	
26	FB1 – 9313 – 000		1	KEY TOP, GUIDE DISPLAY ガイド ヒョウジ ボタン	
27	FB1 – 9315 – 000		1	PANEL, A パネライト (A)	
28	FB1 – 9316 – 000		1	SHEET セイデン シート	
29	FB1 – 9317 – 000		1	CAP キャップ	
30	FB1 – 9318 – 000		1	PANEL パネル	JAPANESE
	FB1 – 9319 – 000		1	PANEL パネル	ENGLISH 115/220/240V
	FB1 – 9320 – 000		1	PANEL パネル	ILLUSTRATION

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FIGURE 160 COPYBOARD COVER ASSEMBLY
原稿台カバー部

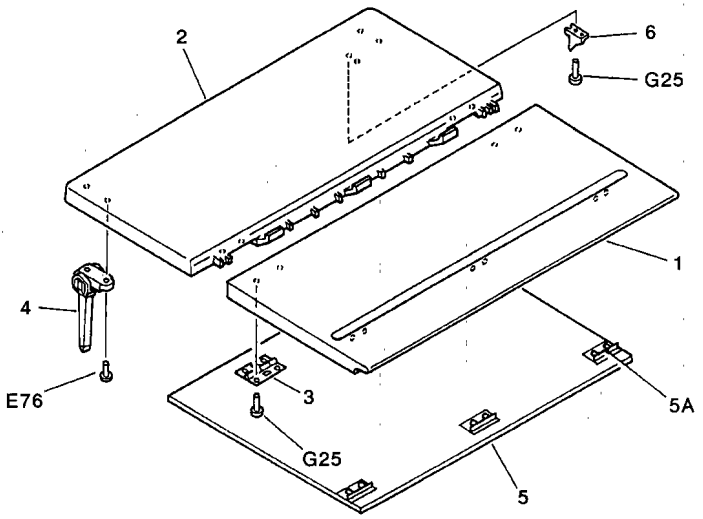

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
160 –	FG5 – 1348 – 000		1	COPYBOARD COVER ASSEMBLY ゲンコウ ダイ カバー ブ	
1	FB1 – 6385 – 000		1	ARM, WEIGHT, FRONT ウエイト アーム (マエ)	
2	FB1 – 6386 – 000		1	ARM, WEIGHT, REAR ウエイト アーム (ウシロ)	
3	FA5 – 1185 – 000		2	PLATE, HINGE ヒンジ バン	
4	FA4 – 9907 – 020		2	HINGE, COPYBOARD COVER ヒンジ	
5	FF1 – 5924 – 000		1	CUSHION ASS'Y, COPYBOARD COVER アツチヤク シート ユニツト	
5A	FA3 – 9055 – 000		3	PLATE, CUSHION HOUNTING シート トリツケ イタ	
6	FB1 – 5990 – 000		1	LEVER, SENSOR ケンチ レバー	

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FIGURE 191 EXHAUST FAN ASSEMBLY
排熱ファン部

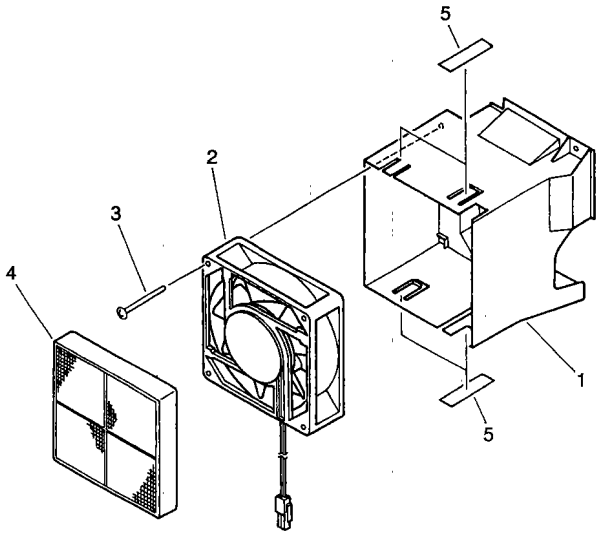

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
191 –	NPN		RF	EXHAUST FAN ASSEMBLY ハイネツ フアン ブ	
1	FB1 – 5999 – 000		1	DUCT ダクト	
2	FH7 – 1844 – 000		1	FAN, DC24V フアン モータ	
3	XA9 – 0189 – 000		2	SCREW, M4X50 ネジ	
4	FB1 – 5681 – 000		1	CASE, FILTER フイルタ ケース	
5	FB1 – 6023 – 000		4	SEAL レンズダイ シール	

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FIGURE 192 COOLING FAN ASSEMBLY
冷却ファン部

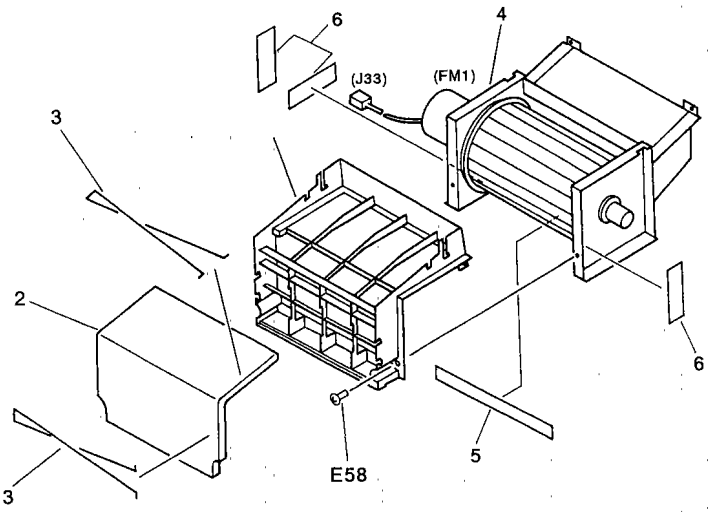

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
192 –	NPN		RF	COOLING FAN ASSEMBLY レイキャク ファン ユニット	
1	FB1 – 6383 – 000		1	DUCT, COOLING FAN レイキャク ファン ダクト	
2	FA5 – 3010 – 000		1	FILTER フイルタ	
3	FA5 – 3011 – 000		2	HOLDER, FILTER フイルタ ドメ	
4	FH7 – 1868 – 000		1	FAN, DC24V ファン モータ	
5	FB1 – 5794 – 000		1	SEAL, FAN 3 ファン シール (3)	
6	FB1 – 5795 – 000		3	SEAL, FAN 4 ファン シール (4)	

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FIGURE 210 LENS MOUNT ASSEMBLY(1/2)
レンズ台部 (1/2)

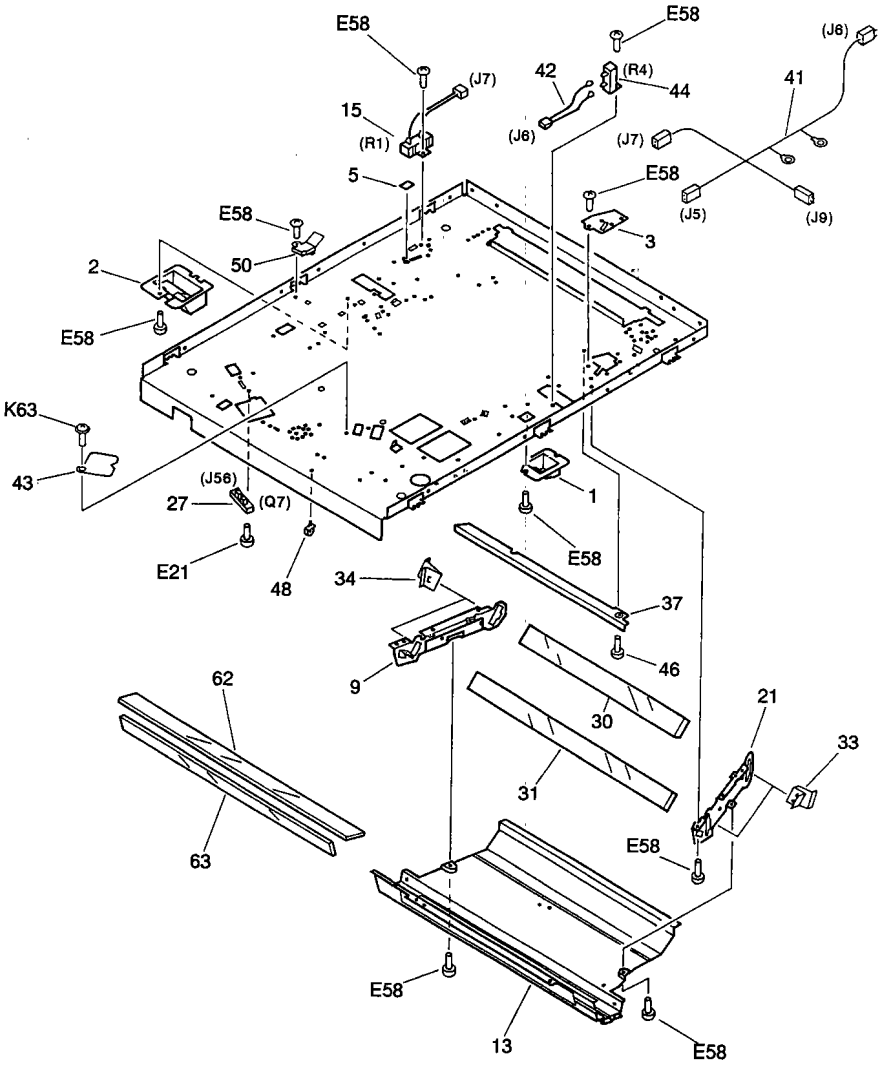

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FIGURE 210 LENS MOUNT ASSEMBLY(2/2)
レンズ台部 (2/2)

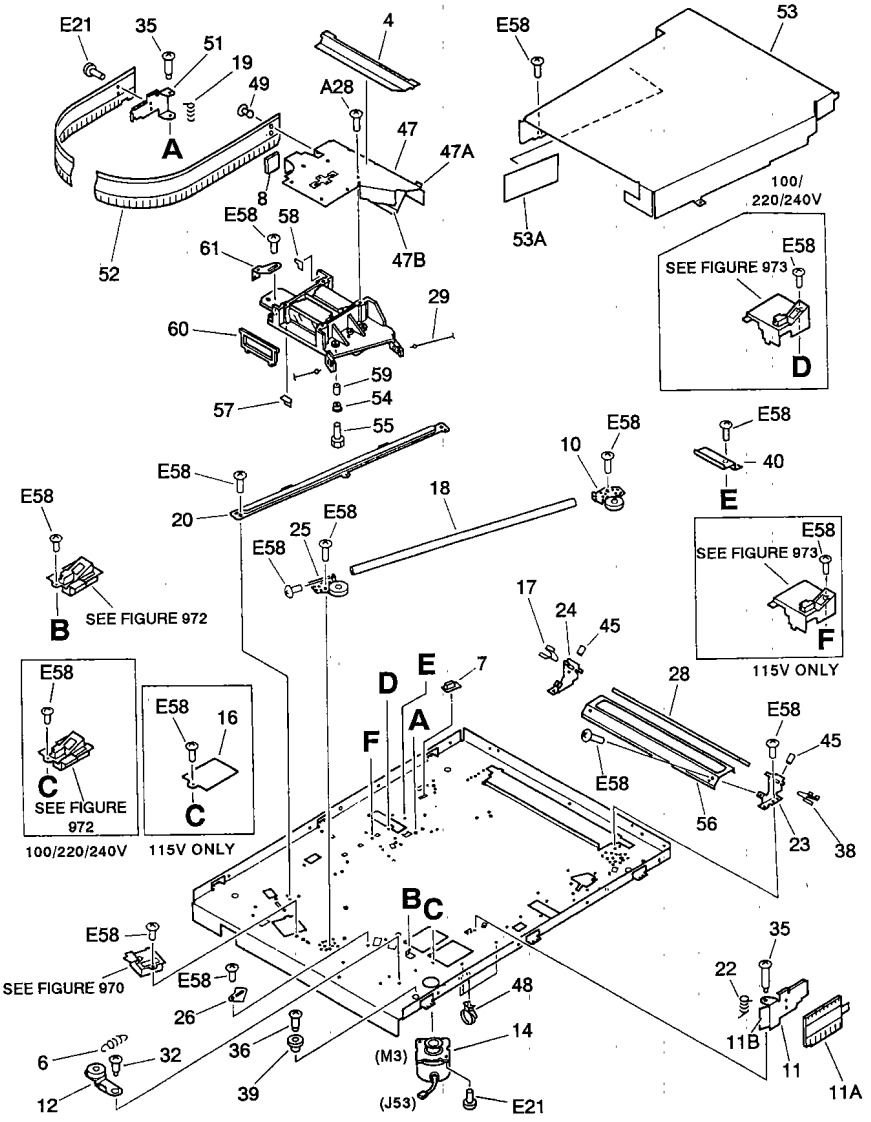

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
210 –	NPN		RF	LENS MOUNT ASSEMBLY レンズ ダイ ブ	
1	FB1 – 6381 – 000		1	DUCT, FRONT ダクト (マエ)	
2	FB1 – 6382 – 000		1	DUCT, REAR ダクト (ウシロ)	
3	FA5 – 2437 – 000		1	PLATE, SHUTTER シヤツタ バン	
4	FA5 – 3228 – 000		1	SHEET レンズ シート	
5	FA9 – 1967 – 000		1	SHEET シート	
6	FA9 – 1980 – 000		1	SPRING, TENSION ヒツパリ バネ	
7	FA9 – 2087 – 000		1	OIL CAP オイル キヤツプ	
8	FA9 – 2091 – 000		1	GUIDE カーテン ガイド	
9	FF2 – 0172 – 000		1	MOUNT, LOWER MIRROR, REAR シタ ミラーダイ (ウシロ)	
10	FF2 – 0077 – 000		1	MOUNT, PULLEY, 2 プーリ ダイ (2)	
11	FF2 – 0078 – 000		1	PLATE, LIGHT – BLOCKING シヤコウ バン	
11A	FA5 – 2439 – 000		1	SLIT スリツト	
11B	FA5 – 3230 – 000		1	SHEET シート	
12	FF2 – 0079 – 000		1	MOUNT, PULLEY, 1 プーリ ダイ (1)	
13	FF2 – 0219 – 000		1	COVER, DUST PROOFING ボウジン カバー	
14	FF9 – 0975 – 000		1	STEPPING MOTOR UNIT ステツピング モータ ユニツト	
15	FF9 – 0998 – 000		1	RESISTOR HEATER UNIT テイコウ ヒータ ユニツト	100V
16	FA3 – 8465 – 000		1	PLATE, BLANKING メカクシ バン	115V
17	FA5 – 1644 – 000		1	SPRING, LEAF, 2/3 FRONT ダイ 2/3 ミラー オサエ バネ (マエ)	
18	FA5 – 2423 – 000	N	1	ROD, GUIDE レンズ ジク	
19	FA5 – 2425 – 000		1	SPRING, TORSION ネジリ バネ	
20	FA5 – 2426 – 000		1	GUIDE, CAM カム ミゾバン	
21	FA5 – 2427 – 000		1	MOUNT, LOWER MIRROR, FRONT シタ ミラーダイ (マエ)	
22	FA9 – 2089 – 000		1	SPRING, TORSION ネジリ バネ	
23	FA5 – 2430 – 000		1	MOUNT, MIRROR 4, FRONT ダイ 4 ミラーダイ (マエ)	
24	FA5 – 2431 – 000		1	MOUNT, MIRROR 4, REAR ダイ 4 ミラーダイ (ウシロ)	
25	FF9 – 1119 – 000		1	MOUNT, PULLEY プーリ ダイ	
26	FA5 – 2433 – 000		1	FLAG フラツグ	
27	FH7 – 7221 – 000		1	PHOTO – INTERRUPTER フオトインタラプタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
210 – 28	FN1 – 4219 – 000		1	MIRROR, 4 ダイ 4 ミラー	
29	FA5 – 2442 – 000		1	WIRE ワイヤ	
30	FN1 – 4220 – 000		1	MIRROR, 5 ダイ 5 ミラー	
31	FN1 – 4221 – 000		1	MIRROR, 6 ダイ 6 ミラー	
32	FS1 – 9002 – 000		1	SCREW, STEPPED, M4 ダンピス	
33	FA5 – 2461 – 000		2	SPRING, LEAF シタ ミラーバネ (マエ)	
34	FA5 – 2462 – 000		2	SPRING, LEAF シタ ミラーバネ (ウシロ)	
35	FS1 – 9007 – 000		2	SCREW, STEPPED, M4 ダンピス	
36	FS1 – 9168 – 000		1	SCREW, STEPPED, M4 ダンピス	
37	FA5 – 2465 – 000		1	PLATE, LIGHT – BLOCKING シヤコウ バン	
38	FA5 – 2466 – 000		1	SPRING, LEAF ダイ 4 ミラーバネ	
39	FS2 – 6016 – 000		1	ROLLER, WIRE ワイヤ コロ	
40	FA5 – 3211 – 000		1	PLATE, OIL STOP オイル ストツパ	100/220/240V
41	FF2 – 4554 – 000		1	CABLE, HEATER ヒータ ソクセン	100V
42	FF9 – 1058 – 000		1	CABLE ソクセン	100V
43	FB1 – 6177 – 000		1	PLATE, BLANKING メカクシ バン	
44	VR5 – 7790 – 152		1	RESISTOR, 1.5KOHM, 10W テイコウ	100V
45	X31 – 6240 – 880		4	SETSCREW, M4X8 ロツカク アナツキ トメネジ	
46	XA9 – 0379 – 000		2	SCREW, M4X3 ビス	
47	FF2 – 0073 – 000		1	PLATE, LIGHT – BLOCKING コウリヨウ ホセイバン	
47A	FA5 – 3220 – 000		1	SHEET, 2 シート (2)	
47B	FA5 – 3222 – 000		1	SHEET, 4 シート (4)	
48	WT2 – 0435 – 000		11	CLAMP, CORD コード クランプ	
49	FA9 – 1699 – 000		1	CLIP クリツプ	
50	FA9 – 1971 – 000		1	CLAMP, CORD コード オサエ	
51	FA5 – 2424 – 000		1	PLATE, BLANKING シヤコウ バン	
52	FA5 – 2438 – 000		1	CURTAIN シャコウ カーテン	
53	FF9 – 1082 – 000		1	COVER, LENS レンズ フード	
53A	FA9 – 1968 – 000		1	SHEET シート	
54	FA5 – 0520 – 000		2	COLLOR カラー	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
210 – 55	FA5 – 0998 – 000		2	SCREW, M6.4X14.4 カラー トメ ビス	
56	FA5 – 2432 – 000		1	PLATE, SLIT スリツト バン	
57	FA5 – 3221 – 000		1	SHEET, 3 シート (3)	
58	FA5 – 3219 – 000		1	SHEET, 1 シート (1)	
59	FA3 – 8421 – 000		2	SPACER スペーサ	
60	FA5 – 0510 – 000		2	RETAINER, LENS レンズ オサエ	
61	FA5 – 2481 – 030		1	MOUNT, PCB PCB トリツケ バン	
62	FN1 – 4222 – 000		1	GLASS, DUST – PROOF 1 ボウジン ガラス 1	
63	FN1 – 4223 – 020		1	GLASS, DUST – PROOF 2 ボウジン ガラス 2	

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FIGURE 250 MAIN MOTOR ASSEMBLY
メインモータ部

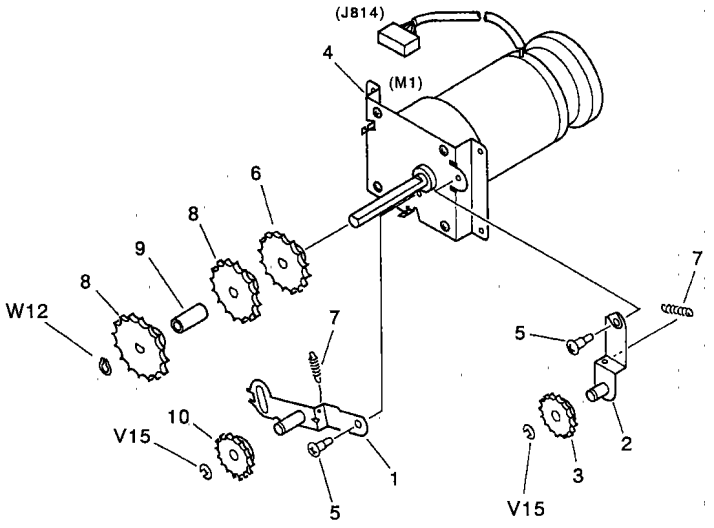

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
250 –	FG5 – 1207 – 000	N	1	MAIN MOTOR ASSEMBLY メイン モータ ブ	
1	FF2 – 0179 – 000		1	ARM, TENSIONING テンショナ バン	
2	FF2 – 0144 – 000		1	ARM, TENSIONING テンショナ バン	
3	87 – 3050 – 000		1	SPROCKET, 16T 16T スプロケツト	
4	FH7 – 1759 – 000		1	MOTOR, DC19V DC モータ	
5	FS1 – 9002 – 000		2	SCREW, STEPPED, M4 ダンビス	
6	FS2 – 0177 – 000		1	SPROCKET スプロケツト	
7	FS2 – 2315 – 000		2	SPRING, TENSION ヒツパリ バネ	
8	FS2 – 3011 – 000		2	SPROCKET, 33T 33T スプロケツト	
9	XZ9 – 0297 – 000		1	SPACER スペーサ	
10	FS1 – 0545 – 000		1	SPROCKET, 18T 18T スプロケツト	

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FIGURE 251 DRUM DRIVE ASSEMBLY
ドラム駆動部

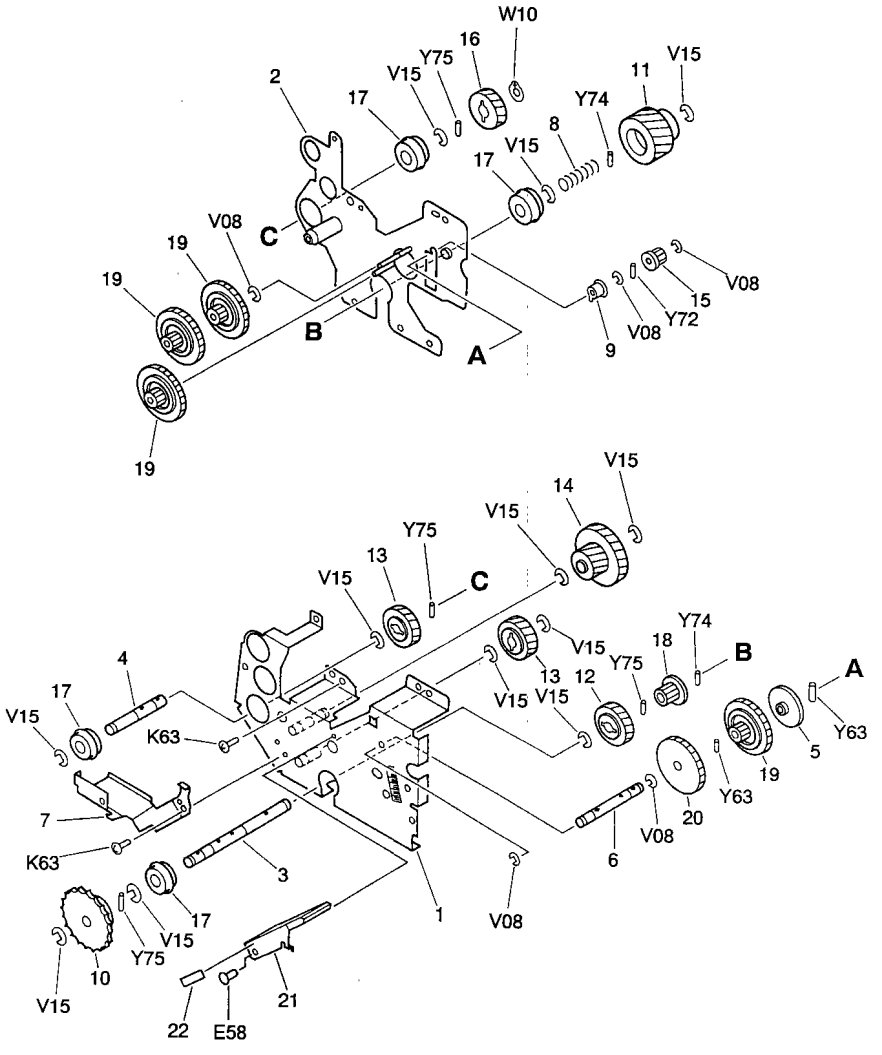

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
251 –	FG5 – 1235 – 000		1	DRUM DRIVE ASSEMBLY ドラム クドウ ブ	
1	FF5 – 0981 – 000	N	1	MOUNT, GEAR, UPPER トリツケ ダイ (ウエ)	
2	FF5 – 0980 – 000	N	1	MOUNT, GEAR, LOWER トリツケ ダイ (シタ)	
3	FB1 – 6057 – 000		1	SHAFT, POWER, INPUT ニユウリヨク ジク	
4	FA5 – 2779 – 000		1	SHAFT, DRIVE, B クドウジク (B)	
5	FB1 – 6039 – 000		1	CAM レシプロ カム	
6	FB1 – 6038 – 000		1	SHAFT レシプロ ジク	
7	FB1 – 6037 – 000		1	PLATE, HOOKING バネカケ イタ	
8	FS3 – 2024 – 000		1	SPRING, COMPRESSION アツシユク バネ	
9	FS1 – 1376 – 000		1	BUSHING ブッシング	
10	FS5 – 3157 – 000		1	SPROCKET, 33T 33T スプロケツト	
11	FS3 – 0022 – 000		1	GEAR, 50T 50T ギア	
12	FS3 – 0062 – 000		1	GEAR, 49T 49T ギア	
13	FS3 – 0063 – 000		2	GEAR, 47T 47T ギア	
14	FS3 – 0064 – 000		1	GEAR, 34/68T 34/68T ギア	
15	FS5 – 0289 – 000		1	GEAR, 20T 20T ギア	
16	FS3 – 0066 – 000		1	GEAR, 22T 22T ギア	
17	XG9 – 0208 – 000		4	BEARING, BALL ボール ベアリング	
18	FS3 – 0068 – 000		1	GEAR, 24T 24T ギア	
19	FS3 – 0069 – 000		4	GEAR, 24/86T 24/86T ギア	
20	FS3 – 0070 – 000		1	GEAR, 86T 86T ギア	
21	FB1 – 6054 – 000		1	COVER, GEAR ギア カバー	
22	FS2 – 8614 – 000		1	LABEL, "WARNING,HIGH VOLTAGE" コウアツ チユウイ メイハン	220/240V
	FS8 – 8194 – 000		1	LABEL, WARNING コネクタ チユウイ ラベル	115V

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FIGURE 260 PAPER FEED DRIVE ASSEMBLY
給紙駆動部

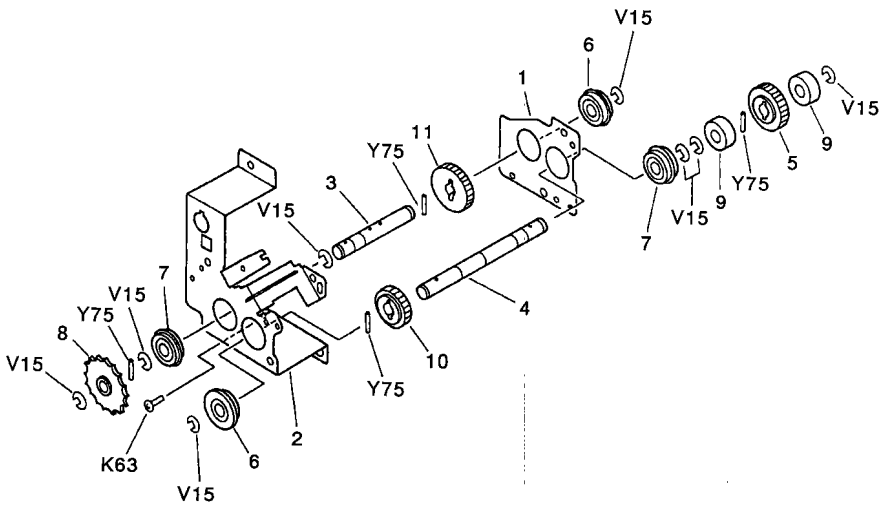

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
260 –	FG5 – 1236 – 000		1	PAPER FEED DRIVE ASSEMBLY キユウシ クドウ ブ	
1	FB1 – 6041 – 000		1	MOUNT, SHAFT, LOWER キユウシ クドウ バン (シタ)	
2	FB1 – 6040 – 000		1	MOUNT, SHAFT, UPPER キユウシ クドウ バン (ウエ)	
3	FB1 – 6404 – 000		1	SHAFT, POWER INPUT ニユウリヨク ジク	
4	FB1 – 6415 – 000		1	SHAFT, POWER OUTPUT シユツリヨク ジク	
5	FS2 – 0441 – 000		1	GEAR, 28T 28T ギア	
6	XG9 – 0201 – 000		2	BEARING, BALL ボール ベアリング	
7	XG9 – 0208 – 000		2	BEARING, BALL ボール ベアリング	
8	FS2 – 3012 – 000		1	SPROCKET, 24T 24T スプロケツト	
9	FS2 – 6005 – 000		2	ROLLER コロ	
10	FS3 – 0026 – 000		1	GEAR, 24T 24T ギア	
11	FS3 – 0039 – 000		1	GEAR, 30T 30T ギア	

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FIGURE 263 REGISTRATION DRIVE ASSEMBLY
レジスト駆動部

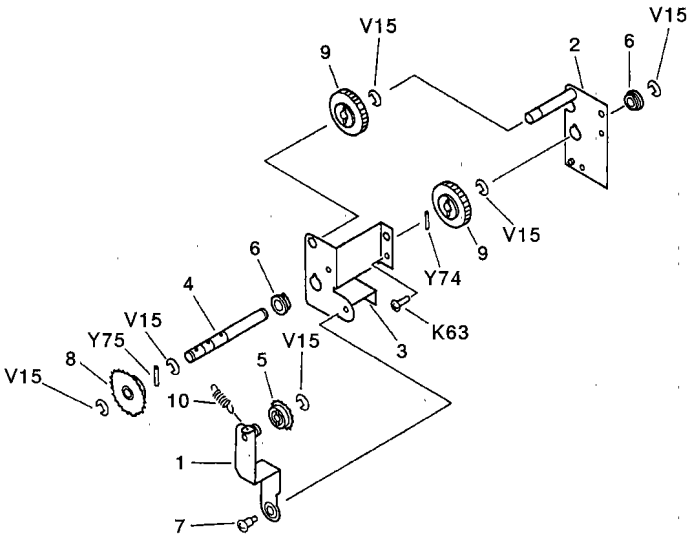

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
263 –	FG5 – 1274 – 000	N	1	REGISTRATION DRIVE ASSEMBLY レジスト クドウ ブ	
1	FF5 – 0986 – 000		1	PLATE, TENSION テンションヨナ バン	
2	FF2 – 0158 – 000		1	PLATE, SPINDLE, LOWER レジスト クドウ バン (シタ)	
3	FA5 – 2937 – 000		1	MOUNT, GEAR, UPPER レジスト クドウ バン (ウエ)	
4	FA5 – 2938 – 000		1	SHAFT, INPUT ニュウリョク ジク	
5	FS1 – 0545 – 000		1	SPROCKET, 18T 18T スプロケツト	
6	FS1 – 1449 – 000		2	BUSHING ブッシング	
7	FS1 – 9002 – 000		1	SCREW, STEPPED, M4 ダンピス	
8	FS2 – 3012 – 000		1	SPROCKET, 24T 24T スプロケツト	
9	FS3 – 0098 – 000		2	GEAR, 35T 35T ギア	
10	FS3 – 2046 – 000		1	SPRING, TENSION ヒツパリ バネ	

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FIGURE 264 CROSS-WAY REGIST. DRIVE ASSEMBLY
横レジスト駆動部

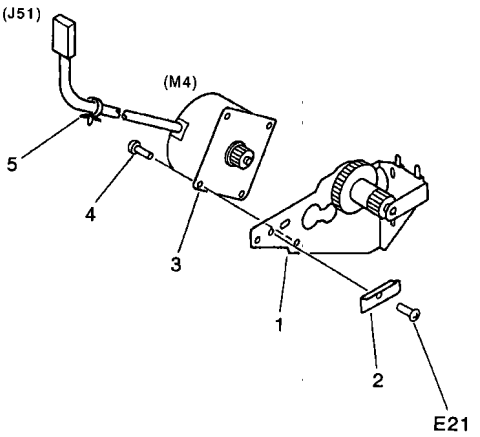

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
264 –	NPN		RF	CROSS – WAY REGIST. DRIVE ASS'Y ヨコ レジスト クドウ ブ	
1	FF5 – 0949 – 000		1	MOUNT, MOTOR モータ シダイ	
2	FB1 – 5904 – 000		1	PLATE シユウドウ バン	
3	FH7 – 1773 – 000		1	MOTOR, DC24V ステッピング モータ	
4	XB1 – 2300 – 309		2	SCREW,MACH.,TRUSS HEAD,M3X3 バインド ネジ	
5	WT2 – 0435 – 000		1	CLAMP, CORD コード クランプ	

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FIGURE 280 FIXING UNIT DRIVE ASSEMBLY
定着駆動部

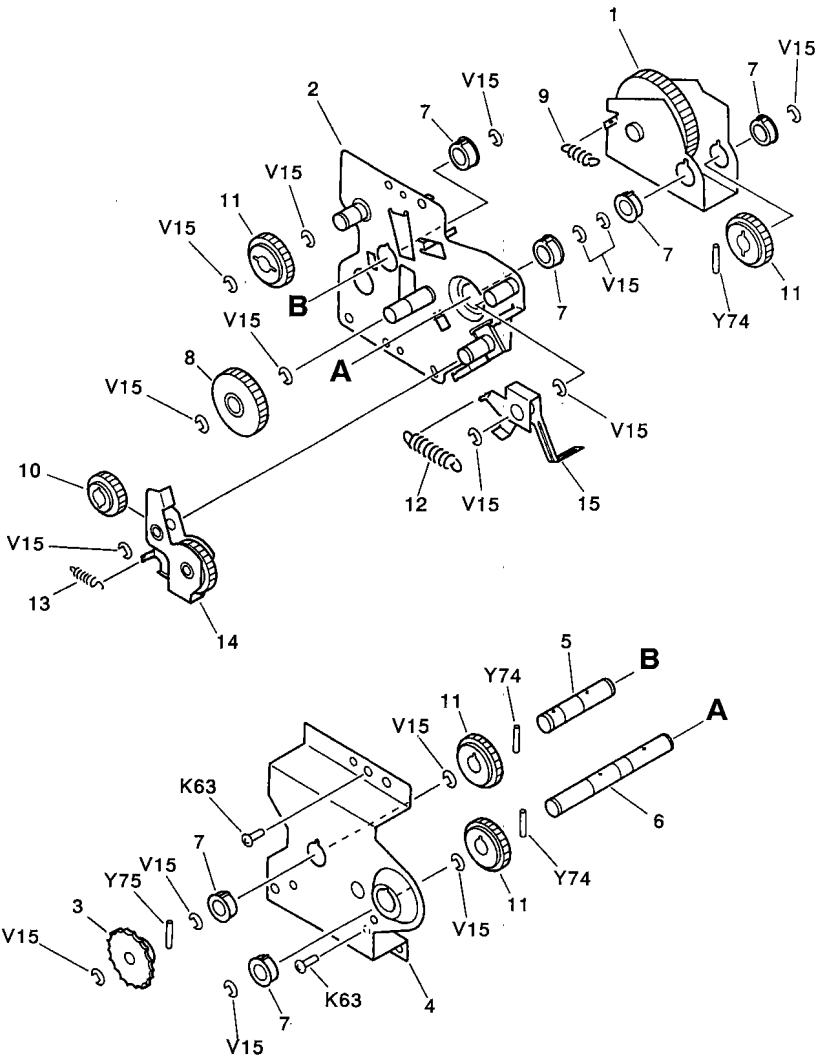

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
280 –	FG5 – 1206 – 000	N	1	FIXING UNIT DRIVE ASSEMBLY テイチヤク クドウ ブ	
1	FF2 – 0134 – 000		1	ARM, FIXING ASS'Y DRIVE テイチヤク クドウ ヨウドウ バン	
2	FF5 – 0944 – 000		1	PLATE, LOWER テイチヤク クドウ バン (シタ)	
3	87 – 3050 – 000		1	SPROCKET, 16T 16T スプロケツト	
4	FB1 – 5888 – 000		1	PLATE, UPPER テイチヤク クドウ バン (ウエ)	
5	FA5 – 2995 – 000		1	SHAFT, POWER INPUT ニユウリヨク ジク	
6	FA5 – 2996 – 000		1	SHAFT, POWER OUTPUT シユツリヨク ジク	
7	FS1 – 1202 – 000		6	BUSHING ブツシング	
8	FS1 – 0615 – 000		1	GEAR, 30T 30T ギア	
9	FS2 – 2330 – 000		1	SPRING, TENSION ヒツパリ バネ	
10	FS3 – 0054 – 020		1	GEAR, 18T 18T ギア	
11	FS3 – 0074 – 000		4	GEAR, 25T 25T ギア	
12	FS5 – 2262 – 000		1	SPRING, TENSION 1 ヒツパリ バネ (1)	
13	FS5 – 2263 – 000		1	SPRING, TENSION 2 ヒツパリ バネ (2)	
14	FF5 – 0945 – 000		1	ARM, GEAR MOUNTING 2 カイテン バン (2)	
15	FB1 – 5980 – 000		1	ARM, GEAR MOUNTING 1 カイテン バン (1)	

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FIGURE 281 CLEANING BELT DRIVE ASSEMBLY
ウェブ駆動部

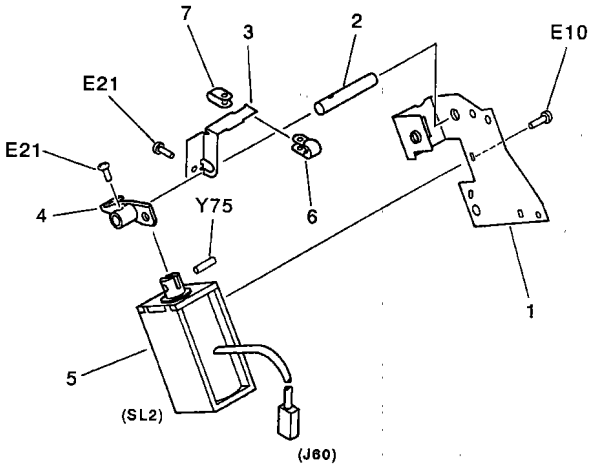

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
281 –	NPN		RF	CLEANING BELT DRIVE ASSEMBLY ウエブクドウブ	
1	FB1 – 6004 – 000		1	MOUNT, SOLENOID ソレノイドシバン	
2	FB1 – 6006 – 000		1	SHAFT ジク	
3	FB1 – 6005 – 000		1	ARM アーム	
4	FA3 – 8917 – 000		1	ARM 2 アーム 2	
5	FH7 – 5240 – 000		1	SOLENOID, DC24V ソレノイド	
6	FA5 – 3019 – 000		2	PAD パツド	
7	FA5 – 3020 – 000		2	SPRING, LEAF イタバネ	

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FIGURE 282 JAM CLEARING DRIVE ASSEMBLY
ジャム解除駆動部

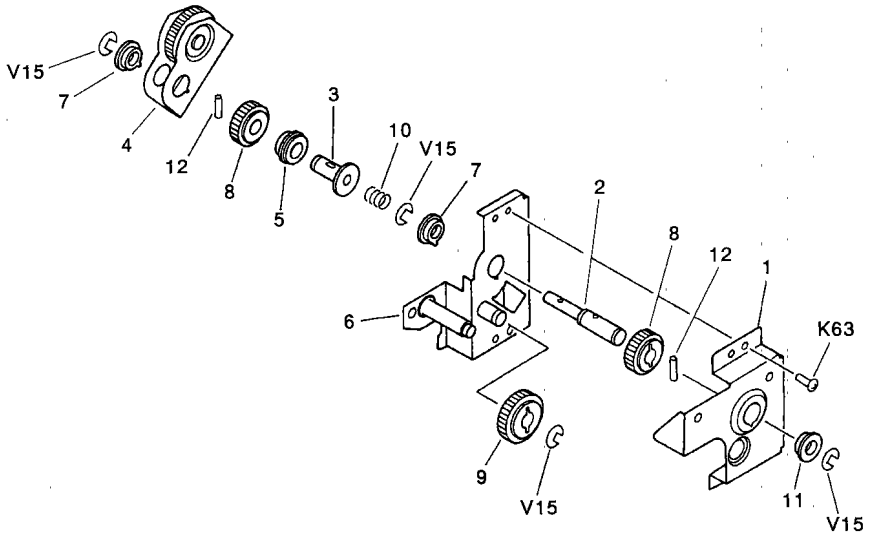

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
282 –	FG5 – 1238 – 000		1	JAM CLEARING DRIVE ASSEMBLY ジャム カイジョ クドウ ブ	
1	FB1 – 6073 – 000		1	MOUNT, UPPER クドウバン (ウエ)	
2	FB1 – 6076 – 000		1	SHAFT, KNOB トツテ ジク	
3	FB1 – 6077 – 000		1	PIN スリツブ ジク	
4	FF5 – 0963 – 000		1	PLATE, SWING ヨウドウ バン	
5	FF5 – 1003 – 000		1	PLATE, BUSHING マサツ バン	
6	FF5 – 1004 – 000		1	MOUNT, LOWER クドウバン (シタ)	
7	FS1 – 1449 – 000		2	BUSHING ブッシング	
8	FS2 – 0445 – 000		2	GEAR, 20T 20T ギア	
9	FS3 – 0074 – 000		1	GEAR, 25T 25T ギア	
10	FS5 – 2264 – 000		1	SPRING, COMPRESSION アツシユク バネ	
11	FS1 – 1462 – 000		1	BUSHING ブッシング	
12	XD9 – 0104 – 000		2	PIN, DOWEL ヘイコウ ピン	

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FIGURE 300 CASSETTE
カセット

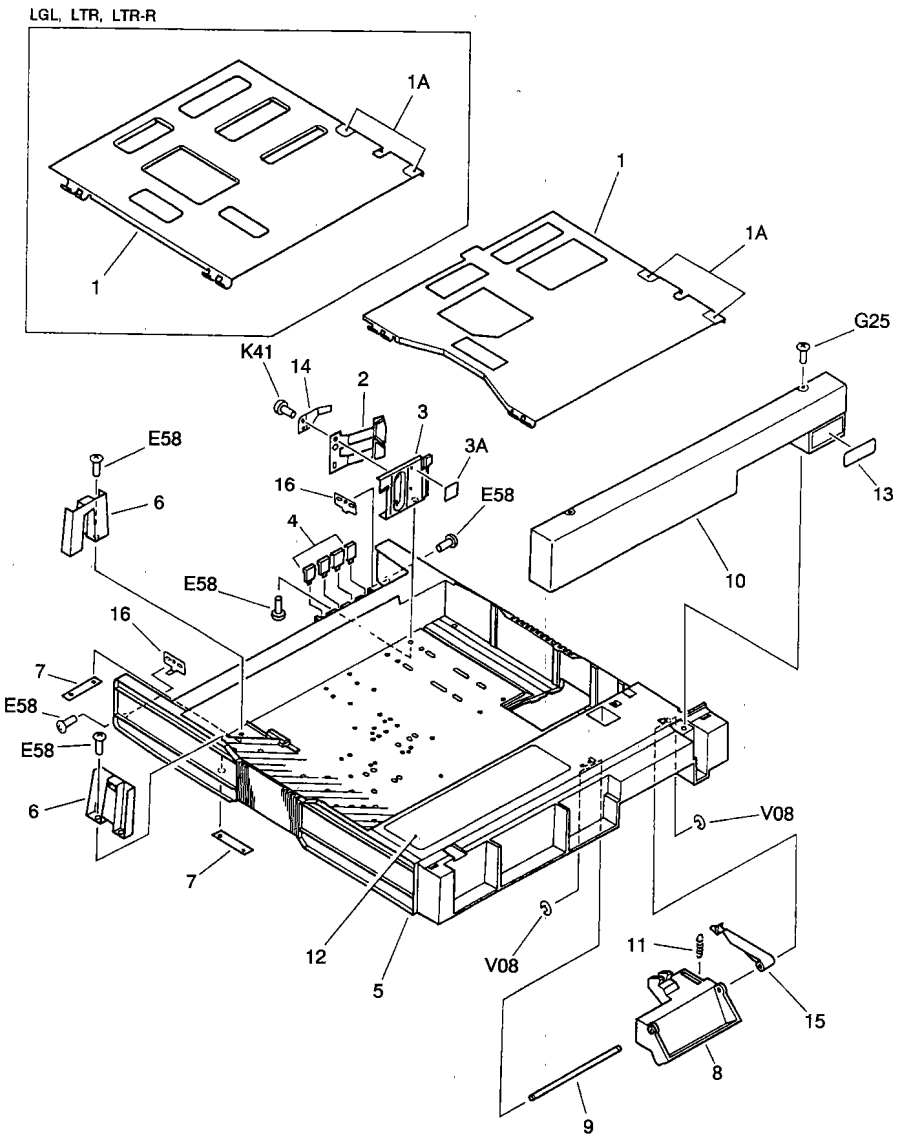

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
300 –	NPN		RF	CASSETTE カセット	
1	FF2 – 0147 – 020		1	PLATE,PAPER LIFTING ナカイタ	A3,A4R,B4,A4,B5R,B5
	FF2 – 0148 – 020		1	PLATE,PAPER LIFTING ナカイタ	LGL,LTR – R,LTR,LDR
1A	FA3 – 8777 – 000		2	STRIP, FRICTION フンリ シート	
2	FF2 – 0149 – 020		1	GUIDE, SIDE サイド ガイド	
3	FF2 – 0166 – 050		1	PLATE,SIDE GUIDE SUPPORT サイド ガイド シバン	
3A	FS4 – 8059 – 000		1	LABEL セキサイ ゲンド ラベル	
4	FA5 – 2231 – 030		4	BLOCK, SIZE サイズ ケンチ コマ	
5	FB1 – 6397 – 000	N	1	BODY, CASSETTE カセット オケ	
6	FA5 – 3311 – 000		2	PLATE, SIZE, SIDE サイド キセイ バン	
7	FA5 – 3312 – 000		2	PLATE, NUT イタ ナット	
8	FB1 – 6398 – 000		1	LATCH, HANDLE トッテ	
9	FA5 – 3314 – 000		1	ROD, LATCH HANDLE トッテ ジク	
10	FB1 – 6151 – 000		1	COVER, CASSETTE カセット カバー	
11	FS3 – 2051 – 000		1	SPRING, TENSION ヒッパリ バネ	
12	FS8 – 8866 – 000		1	LABEL ヨウシ ホキユウ ラベル	
13	FS5 – 8473 – 000		1	LABEL, SIZE サイズ ラベル	A3,A4R,B4,A4,B5R,B5
	FS5 – 8474 – 000		1	LABEL, SIZE サイズ ラベル	LGL,LTR – R,LTR,LDR
14	FA5 – 3322 – 000		1	SPRING, LEAF サイド ガイド バネ B	
15	FA5 – 3324 – 030		1	LEVER, PAPER CONTACT サイド オサエ	
16	FA5 – 3325 – 000		2	PLATE, STOP ストツパ	

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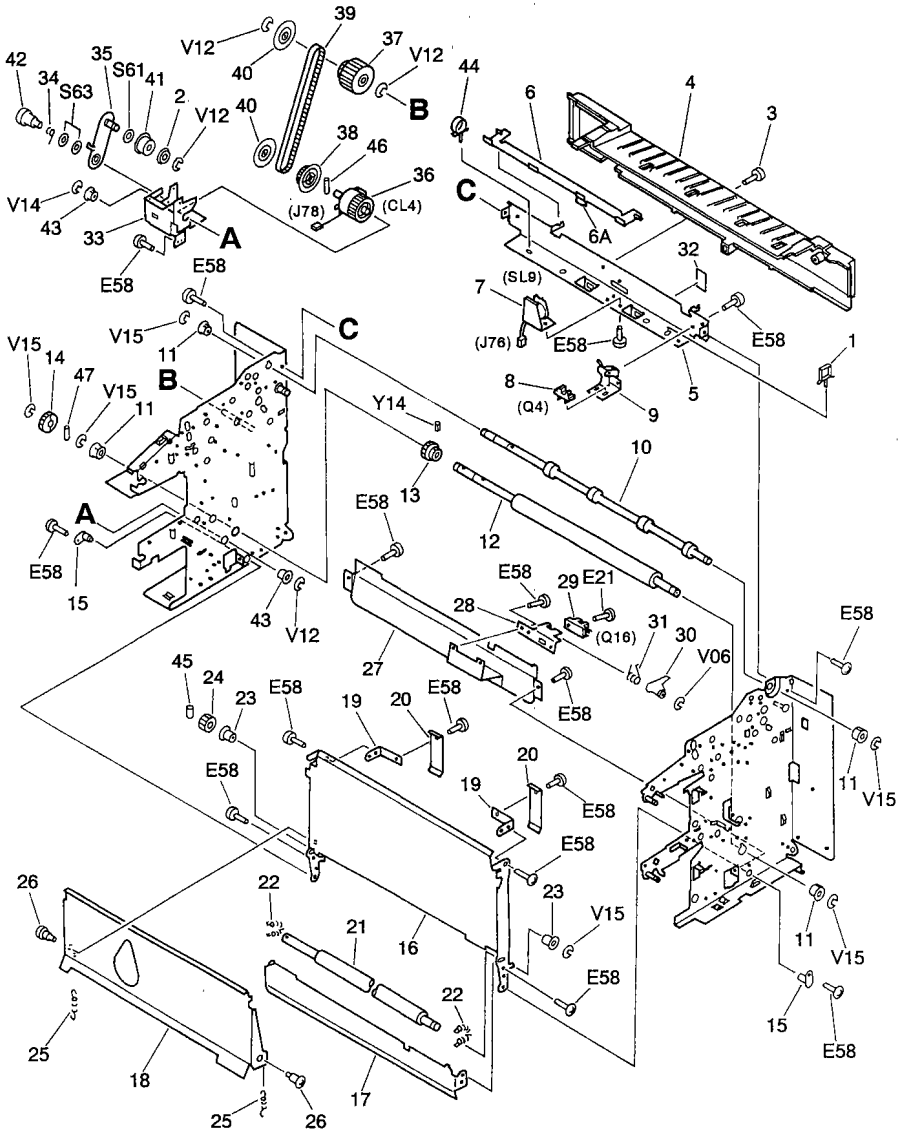
FIGURE 310 PAPER PICK-UP ASSEMBLY 1
給紙部（1）



NOTE : This assembly comes with all the parts shown in Figures 310, 311, 312, 313 and 314.

注 ： このユニットは、 Figure 310, 311, 312, 313 と 314 の全てのパーツで構成されています。

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
310 –	FG5 – 1210 – 110		1	PAPER PICK – UP ASSEMBLY キュウシ ブ	SEE NOTE
1	WT2 – 5048 – 000		3	CLAMP, CORD コード クランプ	
2	FA3 – 2015 – 020		1	SPACER スペーサ	
3	XA9 – 0041 – 000		1	SCREW, INSUL, TRUSS HEAD, M4X8 ボリ ビス	
4	FB1 – 5917 – 000		1	GUIDE, MANUAL FEED テザシ ガイド	
5	FA5 – 2823 – 030		1	CROSSMEMBER テザシ ステー	
6	FF9 – 1092 – 000		1	SHUTTER, MANUAL FEED テザシ シヤツタ	
6A	FA5 – 2931 – 000		2	PAD パツド	
7	FH7 – 5155 – 000		1	SOLENOID, DC24V ソレノイド	
8	FH7 – 7155 – 000		1	PHOTO – INTERRUPTER フオトインタラプタ	
9	FF2 – 0214 – 000		1	MOUNT, PHOTO – INTERRUPTER テザシ センサ ダイ	
10	FA5 – 2892 – 020		1	ROLLER, MANUAL FEED, LOWER テザシ ローラ (シタ)	
11	FS1 – 1462 – 000		4	BUSHING ブッシング	
12	FB1 – 5911 – 000		1	REGISTRATION ROLLER 3 ダイ 3 レジ クドウ ローラ	
13	FS3 – 0077 – 000		1	GEAR, 24T 24T ギア	
14	FS1 – 0422 – 000		1	GEAR, 20T 20T ギア	
15	FA5 – 2839 – 000		2	PLATE, PIN フロート ピン	
16	FA5 – 3401 – 000		1	PLATE, GUIDE タテ パス ガイド	
17	FA5 – 3402 – 000		1	PLATE, GUIDE, II タテ パス ガイド II	
18	FA5 – 3403 – 000		1	GUIDE カイヘイ ガイド	
19	FA5 – 3404 – 000		2	SUPPORT イタ バネ シダイ	
20	FA5 – 3405 – 020		2	SPRING,LEAF カアツ イタ バネ	
21	FA5 – 3406 – 000		1	ROLLER, SHAFT ジユウドウ ローラ	
22	FA9 – 2178 – 000		2	SPRING, TENSION ローラ ササエ バネ (2)	
23	FS1 – 1465 – 000		2	BUSHING ブッシング	
24	FS3 – 0076 – 000		1	GEAR, 16T 16T ギア	
25	FS3 – 2031 – 000		2	SPRING, TENSION ヒツパリ バネ	
26	FS1 – 9076 – 000		2	SCREW, STEPPED, M4 ダンビス	
27	FA5 – 3408 – 000		1	REGISTRATION GUIDE 3, FRONT ダイ 3 レジ マエ ガイド	
28	FF2 – 0430 – 000		1	PLATE, PAPER SENSING レジスト センサ バン	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
310 – 29	FH7 – 7081 – 000		1	PHOTO – INTERRUPTER フオト インタ ラプタ	
30	FA4 – 0472 – 000		1	ARM, PAPER SENSING ケンチ アーム	
31	FA4 – 0473 – 000		1	SPRING, TORSION ネジリ バネ	
32	FA9 – 2047 – 000		1	RUBBER, FOAM フオーム ラバー	
33	FB1 – 5906 – 000		1	PLATE, GEAR MOUNTING 3 ダイ 3 レジシバン	
34	FB1 – 5909 – 000		1	SPRING, TORSION ネジリ バネ	
35	FF5 – 0952 – 000		1	PLATE, SPINDLE テンシヨナ シバン	
36	FH7 – 5342 – 000		1	CLUTCH, ELECTROMAGNETIC DC24V デンジ クラツチ	
37	FS5 – 0287 – 000		1	PULLEY, 32T/GEAR, 32T 32T プーリ/32T ギア	
38	FS5 – 3155 – 000		1	PULLEY, 32T 32T プーリ	
39	XF9 – 0377 – 000		1	BELT, TIMING, 170T タイミング ベルト	
40	FS5 – 6150 – 000		2	FLANGE ベルト ストツパ	
41	FS2 – 6007 – 000		1	ROLLER, TENSION テンシヨン ローラ	
42	FS1 – 9073 – 000		1	SCREW, STEPPED, M4 ダンピス	
43	FS1 – 1206 – 000		2	BUSHING ブツシング	
44	WT2 – 5041 – 000		2	TIE, CABLE ソクセン バンド	
45	XD9 – 0103 – 000		1	PIN, DOWEL ヘイコウ ピン	
46	XD9 – 0104 – 000		1	PIN, DOWEL ヘイコウ ピン	
47	XD9 – 0108 – 000		1	PIN, DOWEL ヘイコウ ピン	

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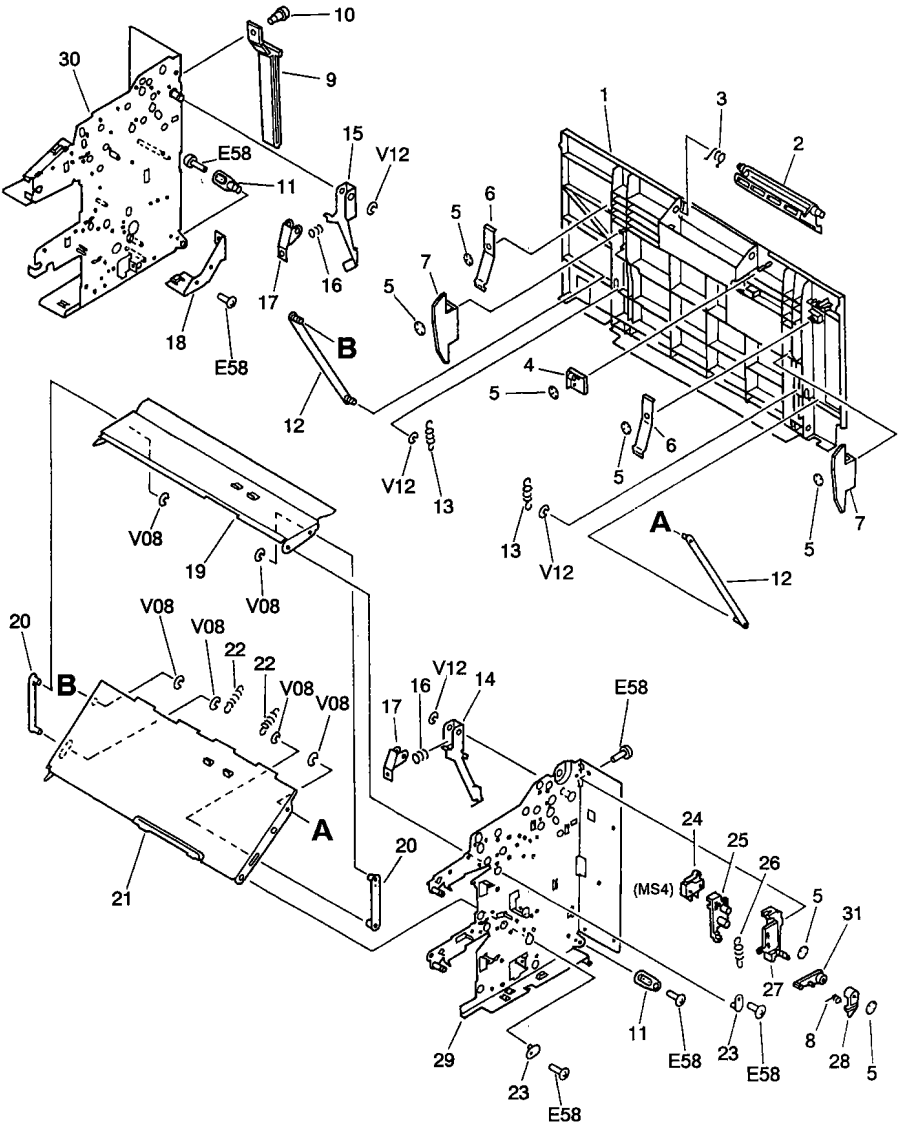
FIGURE 311 PAPER PICK-UP ASSEMBLY 2
給紙部 (2)



NOTE : This assembly comes with all the parts shown in Figures 310, 311, 312, 313 and 314.

注 : このユニットは、 Figure 310, 311, 312, 313 と 314 の全てのパーツで構成されています。

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
311 –	FG5 – 1210 – 110		1	PAPER PICK – UP ASSEMBLY キュウシ ブ	SEE NOTE
1	FB1 – 5915 – 000		1	DOOR, RIGHT LOWER ドア (ミギ シタ)	
2	FB1 – 5918 – 000		1	CATCH トツテ	
3	FA5 – 2888 – 020		1	SPRING, TORSION ネジリ バネ	
4	FB1 – 5916 – 000		1	HOLDER, CATCH トツテ ホルダー	
5	XD9 – 0037 – 000		11	RING, SE SE リング	
6	FA5 – 2889 – 000		2	SPRING, LEAF イタ バネ	
7	FA5 – 3409 – 000		2	GUIDE カアツ リブ	
8	FA5 – 2935 – 000		1	SPRING, TORSION ネジリ バネ	
9	FA9 – 2484 – 000		1	STOP, RIGHT LOWER DOOR ミギシタ ササエ テーブ	
10	FS1 – 9076 – 000		1	SCREW, STEPPED, M4 ダンビス	
11	FF2 – 0093 – 000		2	PLATE, HINGE ヒンジ バン	
12	FF2 – 0086 – 000		2	LINK, LOWER GUIDE シタ ガイド リンク	
13	FS3 – 2015 – 000		2	SPRING, TENSION ヒツパリ バネ	
14	FA5 – 2882 – 000		1	REGISTRATION LEVER 2, FRONT ダイ 2 レジ カアツバン (マエ)	
15	FA5 – 2883 – 000		1	REGISTRATION LEVER 2, REAR ダイ 2 レジ カアツバン (ウシロ)	
16	FS3 – 2009 – 000		2	SPRING, COMPRESSION アツシユク バネ	
17	FA5 – 2884 – 000		2	ARM, LIFTING カアツ アーム	
18	FA5 – 2925 – 000		1	COVER クドウ アナ フタ	
19	FA5 – 2833 – 000		1	GUIDE, MIDDLE ガイド (ナカ)	
20	FF2 – 0085 – 000		2	LINK, MIDDLE GUIDE ナカ ガイド リンク	
21	FA5 – 2834 – 000		1	GUIDE, LOWER ガイド (シタ)	
22	FS3 – 2014 – 000		2	SPRING, TENSION ヒツパリ バネ	
23	FA4 – 1149 – 000		2	PLATE, PIN ゼツエン ピン	
24	WC4 – 0138 – 000		1	MICROSWITCH マイクロ スイツチ	
25	FA5 – 2900 – 000		1	MOUNT, MICROSWITCH スイツチ スライダ	
26	FA9 – 2120 – 000		1	SPRING, TENSION ヒツパリ バネ	
27	FA5 – 2899 – 020		1	GUIDE タカサ チヨウセイ コマ	
28	FA5 – 2901 – 000		1	ARM, PAWL セイギヨ アーム	
29	FF2 – 0082 – 050		1	SIDE PLATE, FRONT キュウシ マエ ソクバン	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
311 -- 30	FF5 - 0951 - 000	N	1	SIDE PLATE, REAR キユウシ ウシロ ソクバン	
31	FA5 - 2934 - 000		1	ARM II アーム (II)	

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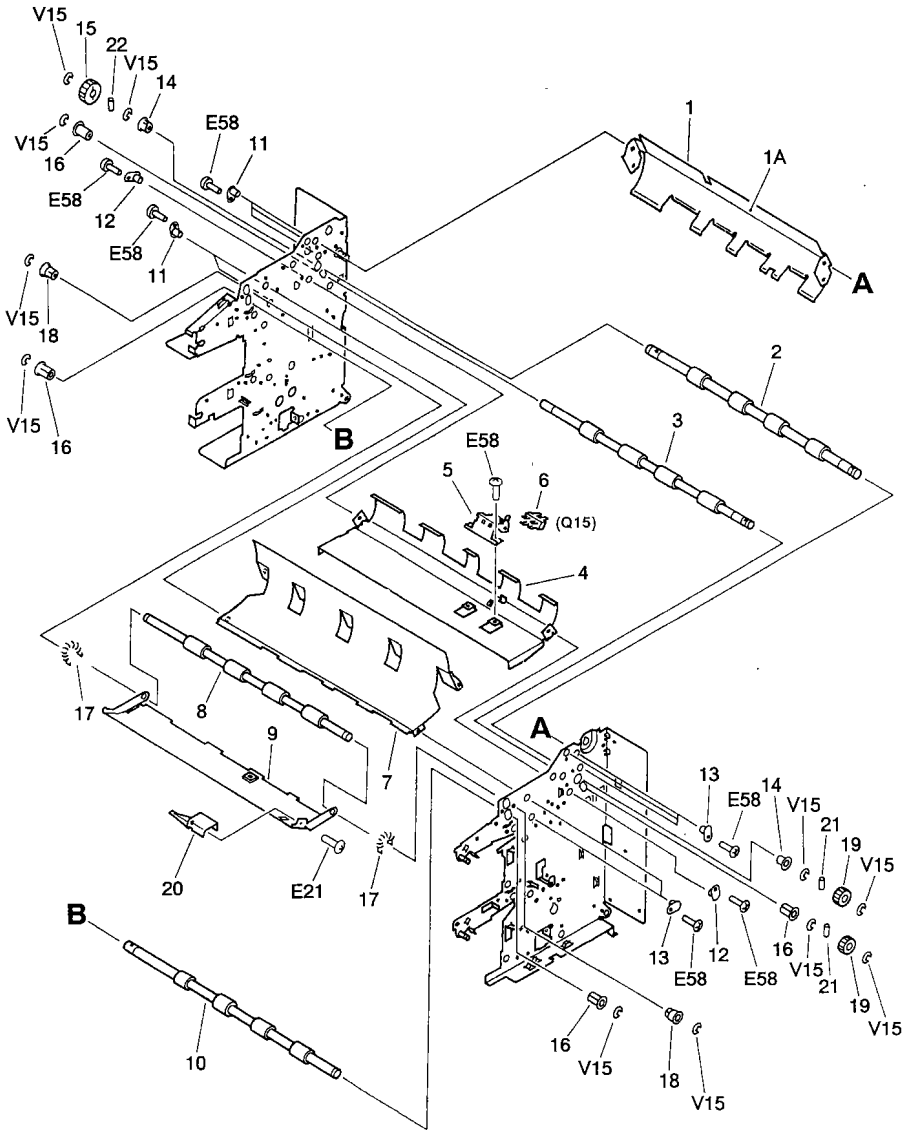
FIGURE 312 PAPER PICK-UP ASSEMBLY 3
給紙部 (3)



NOTE 1 : This assembly comes with all the parts shown in Figures 310, 311, 312, 313 and 314.

注1 : このユニットは、 Figure 310, 311, 312, 313 と 314 の全てのパーツで構成されています。

NOTE 2 : This assembly does not include the part shown with key No. 20.

注2 : このユニットに、 Key No. 20 の部品は含まれません。

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
312 –	FG5 – 1210 – 110		1	PAPER PICK – UP ASSEMBLY キュウシ ブ	SEE NOTE
1	FF2 – 0167 – 020		1	GUIDE, PAPER, OUTER ソト ガイド	
1A	FA5 – 2926 – 000		1	SHEET シート	
2	FA5 – 2840 – 000		1	REGISTRATION ROLLER 2, UPPER ダイ 2 レジスト ローラ (ウエ)	
3	FA5 – 2841 – 000		1	REGISTRATION ROLLER 2, LOWER ダイ 2 レジスト ローラ (シタ)	
4	FA5 – 2832 – 020		1	GUIDE, UPPER ガイド (ウエ)	
5	FF2 – 0087 – 000		1	MOUNT, PHOTO – INTERRUPTER, II センサ ホルダ II	
6	FH7 – 7155 – 000		1	PHOTO – INTERRUPTER フオトインタラプタ	
7	FA5 – 2827 – 020		1	PAPER GUIDE, U – SHAPED U ガイド	
8	FA5 – 2826 – 000		1	SHAFT, ROLLER, UPPER ローラ (ウエ)	
9	FA5 – 2824 – 030		1	PLATE, GUIDE, PAPER ペーパー ガイド	
10	FA5 – 2825 – 000		1	SHAFT, ROLLER, LOWER ローラ (シタ)	
11	FA3 – 9120 – 000		5	PIN GUIDE フロート ピン	
12	FA5 – 2839 – 000		2	PLATE, PIN フロート ピン	
13	FA4 – 1149 – 000		5	PLATE, PIN ゼツエン ピン	
14	FS1 – 1462 – 000		2	BUSHING ブッシング	
15	FS3 – 0026 – 000		1	GEAR, 24T 24T ギア	
16	FS2 – 1004 – 020		4	BUSHING ジク ウケ	
17	FS3 – 2063 – 000		2	SPRING, TENSION ヒツパリ バネ	
18	FS2 – 1003 – 000		2	BUSHING ブッシング	
19	FS2 – 0448 – 000		2	GEAR, 32T 32T ギア	
20	FB1 – 6137 – 000		1	HANDLE, GUIDE シンニユウ ガイド ツマミ	SEE NOTE
21	XD9 – 0103 – 000		2	PIN, DOWEL ヘイコウ ピン	
22	XD9 – 0108 – 000		1	PIN, DOWEL ヘイコウ ピン	

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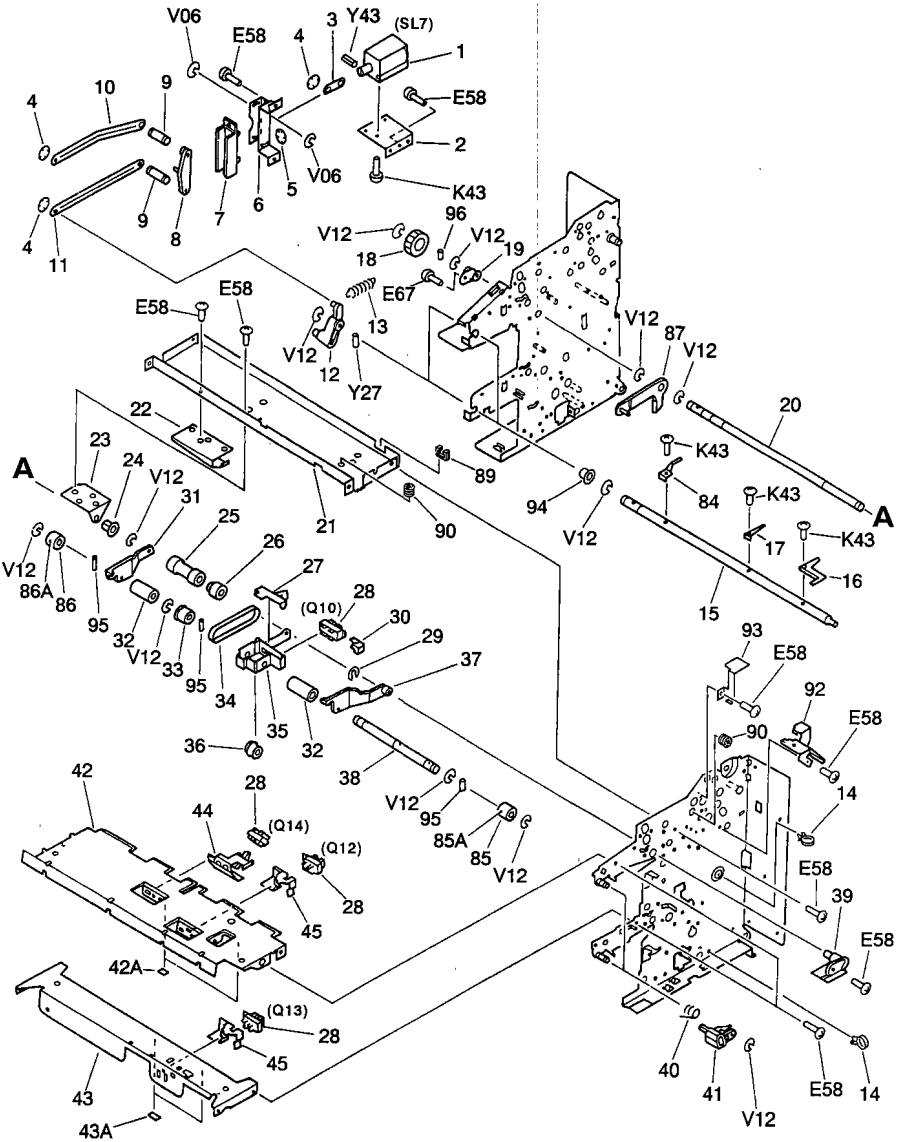
FIGURE 313 PAPER PICK-UP ASSEMBLY 4 (1/3)
給紙部 (4) (1/3)



NOTE : This assembly comes with all the parts shown in Figures 310, 311, 312, 313 and 314.

注 : このユニットは、 Figure 310, 311, 312, 313 と 314 の全てのパーツで構成されています。

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FIGURE 313 PAPER PICK-UP ASSMBLY 4 (2/3)
給紙部 (4) (2/3)

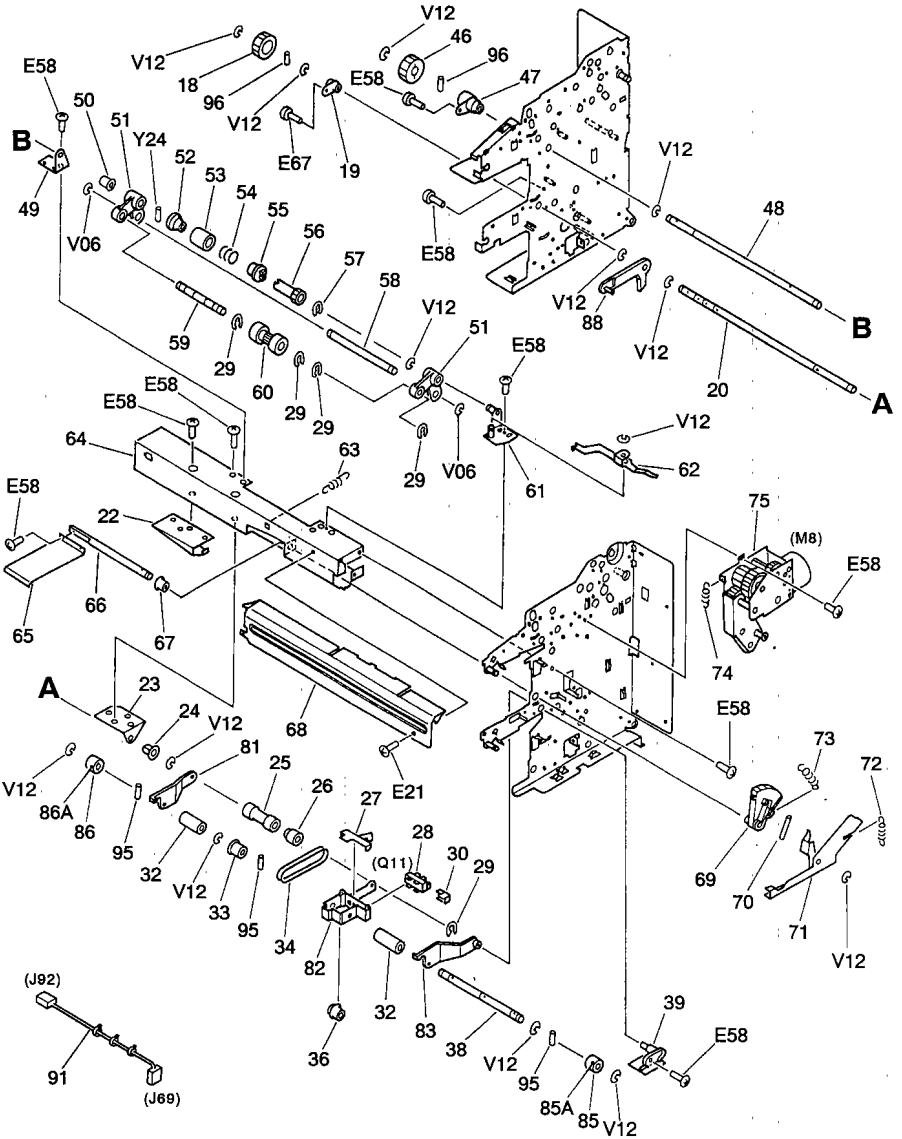

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FIGURE 313 PAPER PICK-UP ASSEMBLY 4 (3/3)
給紙部 (4) (3/3)

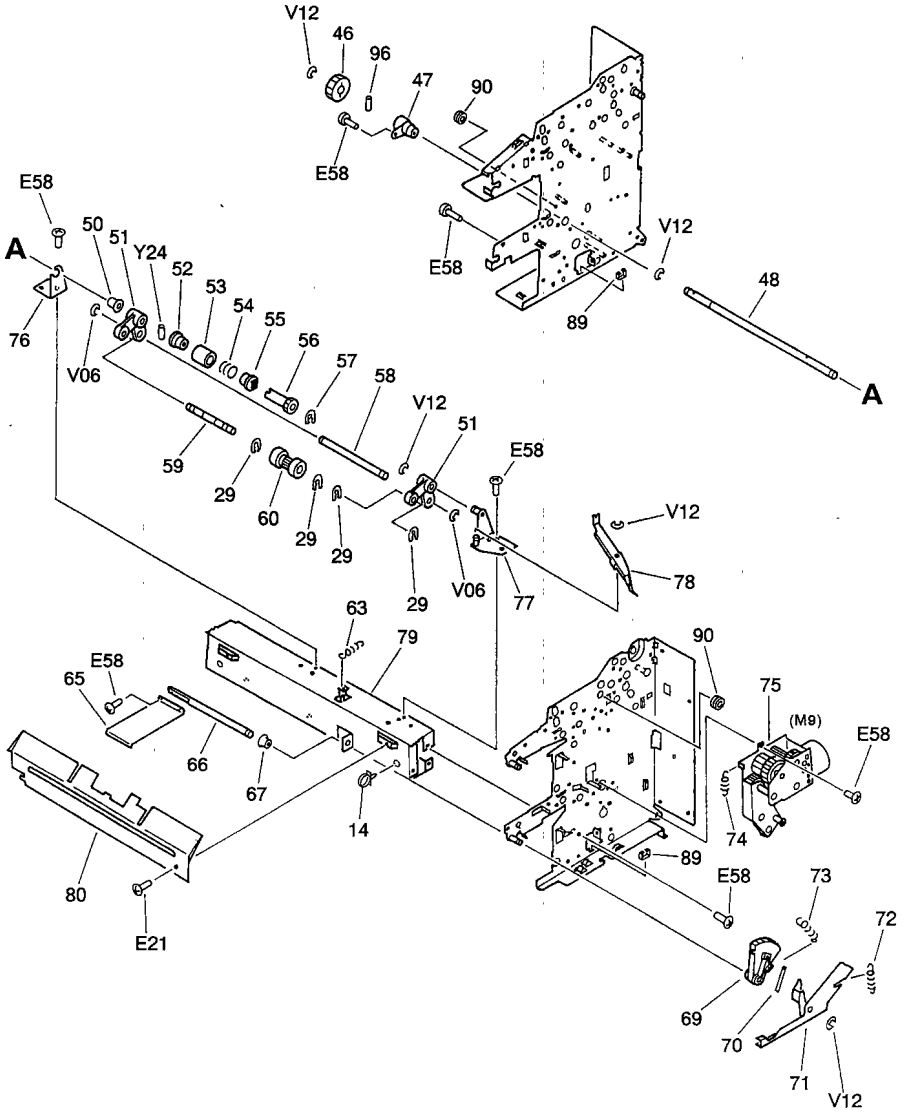

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
313 –	FG5 – 1210 – 110		1	PAPER PICK – UP ASSEMBLY キュウシ ブ	SEE NOTE
1	FH7 – 5030 – 030		1	SOLENOID, DC24V ソレノイド	
2	FA5 – 2912 – 000		1	PLATE, SELECT センタク キバン	
3	FA5 – 2916 – 000		1	ARM, LINK ソレノイド リンク	
4	XD9 – 0037 – 000		3	RING, SE SE リング	
5	XA9 – 0135 – 000		2	NUT, PUSH プッシュ ナット	
6	FA5 – 2913 – 000		1	GUIDE, SLIDE スライド ガイド	
7	FA5 – 2914 – 000		1	SLIDER スライダ	
8	FA5 – 2915 – 000		1	ARM, LINK センター リンク	
9	FA5 – 2919 – 000		2	SHAFT センタク リスク ジク	
10	FA5 – 2917 – 000		1	ARM, LINK, UPPER ウエ リンク	
11	FA5 – 2918 – 000		1	ARM, LINK, LOWER シタ リンク	
12	FA5 – 2873 – 000		2	ARM,REL., PICK – UP ROLLER, REAR キュウシ ローラ カイジヨアーム(ウシロ)	
13	FS3 – 2011 – 000		2	SPRING, TENSION ヒツパリ バネ	
14	WT2 – 5041 – 000		13	TIE, CABLE ソクセン バンド	
15	FA5 – 2871 – 000		2	SHAFT, RELEASE, PICK – UP ROLLER キュウシ ローラ カイジヨ ジク	
16	FA5 – 2874 – 000		2	PLATE,REL.,PICK – UP ROL., FRONT キュウシ ローラ カイジヨ バン(マエ)	
17	FA5 – 2875 – 000		2	PLATE,REL., PICK – UP ROL., REAR キュウシ ローラ カイジヨバン(ウシロ)	
18	FS3 – 0029 – 000		2	GEAR, 27T 27T ギア	
19	FS2 – 1006 – 000		2	BUSHING ジク ウケ	
20	FA5 – 2848 – 000		2	SHAFT, FEED ROLLER ハンソウ ローラ ジク	
21	FA5 – 2818 – 020		1	BASE, CASSETTE HOLDER, UPPER ステー (ウエ)	
22	FA5 – 2844 – 000		2	GUIDE PLATE, REAR ガイド (オク)	
23	FA5 – 2847 – 000		2	PLATE, FEED ROLLER ハンソウ ローラ ジク シバン	
24	FS2 – 1005 – 000		2	BUSHING ブッシング	
25	FA5 – 2933 – 020		2	ROLLER, FEEDER ハンソウ ローラ	
26	FS2 – 3003 – 000		2	PULLEY, ONE WAY ワンウエイ プーリ	
27	FA5 – 2853 – 000		2	ARM, PAPER SENSING カミ ケンチ アーム	
28	FH7 – 7155 – 000		5	PHOTO – INTERRUPTER フオトインタラプタ	
29	FA9 – 2184 – 000		10	RETAINING RING ジユシ キンテイ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
313 – 30	FA5 – 2921 – 020		2	GUIDE コネクタ ガイド	
31	FA5 – 2851 – 000		1	ARM,PICK – UP ROLLER, UPPER REAR キユウシ ローラ アーム(ウエ ウシロ)	
32	FS2 – 6001 – 000		4	SPACER, WEIGHT ウエイト カラー	
33	FS2 – 3004 – 000		2	PULLEY, PICK – UP ROLLER キユウシ プーリ	
34	XF9 – 0094 – 000		2	BELT, TIMING, 63T タイミング ベルト	
35	FA5 – 2852 – 000		1	GUIDE, PAPER SENSING, UPPER カミ ケンチ ガイド(ウエ)	
36	FS2 – 6003 – 000		2	ROLLER ケンチ コロ	
37	FA5 – 2850 – 000		1	ARM,PICK – UP ROLLER,UPPER FRONT キユウシ ローラ アーム(ウエ マエ)	
38	FA5 – 2849 – 000		2	SHAFT, PICK – UP ROLLER キユウシ ローラ ジク	
39	FA5 – 2922 – 000		2	SHAFT, A A シジク	
40	FB1 – 5912 – 000		2	SPRING, TORSION ネジリ バネ	
41	FA5 – 2872 – 000		2	ARM,REL.,PICK – UP ROLLER, FRONT キユウシ ローラ カイジヨ アーム(マエ)	
42	FF9 – 1094 – 060		1	CROSSMEMBER, GUIDE ガイド ステー	
42A	FA5 – 2931 – 000		2	PAD パツド	
43	FF9 – 1093 – 050		1	PLATE, SENSOR MOUNTING, LOWER センサ キダイ (シタ)	
43A	FA5 – 2931 – 000		2	PAD パツド	
44	FF2 – 0084 – 000		1	MOUNT, PHOTO – INTERRUPTER センサ ホルダ	
45	FA5 – 2856 – 020		2	GUIDE, SENSOR センサ ガイド	
46	FS3 – 0101 – 000		2	GEAR, 26T 26T ギア	
47	FS2 – 1007 – 000		2	BUSHING ジク ウケ	
48	FA5 – 2863 – 000		2	SHAFT 2, SEPARATION ROLLER ブンリ ローラ ジク 2	
49	FA5 – 2845 – 000		1	PLATE, SEP.ROLLER, REAR, UPPER ウエ ブンリ ジク シバン(ウシロ)	
50	FS1 – 1190 – 000		2	BUSHING ブツシング	
51	FA5 – 2868 – 000		4	ARM, SEPARATION ROLLER ブンリ ローラ アーム	
52	FA5 – 2865 – 000		2	DRUM, CLUTCH DRIVEN ニユウリヨク ドラム	
53	FA3 – 8730 – 000		2	RING, CLUTCH ACTION クラツチ ケース	
54	FS3 – 2008 – 000		2	SPRING, TORSION ネジリ バネ	
55	FA3 – 8729 – 000		2	DRUM, CLUTCH DRIVING クラツチ ドラム	
56	FS3 – 0023 – 000		2	GEAR, 27T 27T ギア	
57	FA5 – 2864 – 020		2	RETAINING, RING トメワ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
313 – 58	FA5 – 2857 – 000		2	SHAFT プンリ ローラ カウンタ ジク	
59	FA5 – 2866 – 000		2	SHAFT 1, SEPARATION ROLLER プンリ ローラ ジク 1	
60	FA5 – 2867 – 000		2	ROLLER, SEPARATION プンリ ローラ	
61	FF2 – 0088 – 000		1	PLATE, SEP.ROLLER, FRONT,UPPER ウエ プンリ ジク シバン (マエ)	
62	FA5 – 2869 – 000		1	PLATE,RELEASE,SEP.ROLLER,UPPER プンリ ローラ カイジヨ バン(ウエ)	
63	FS3 – 2012 – 000		2	SPRING, TENSION ヒツパリ バネ	
64	FA5 – 2819 – 030		1	BASE, CASSETTE HOLDER, MIDDLE ステー (ナカ)	
65	FA5 – 2878 – 000		2	PLATE, LIFTING カアツ バン	
66	FA5 – 2877 – 000		2	SHAFT カアツ ジク	
67	FS2 – 1008 – 000		2	BUSHING ブッシング	
68	FA5 – 2837 – 000		1	GUIDE, ENTRY, UPPER シンニユウ ガイド(ウエ)	
69	FA5 – 2880 – 000		2	GEAR, SECTOR オウギ ガタ ギア	
70	FA5 – 2924 – 000		2	PIN,DOWEL ヘイコウ ピン	
71	FA5 – 2879 – 000		2	PLATE, RELEASE, LIFTING カアツ カイジヨ バン	
72	FA9 – 2610 – 000		2	SPRING ヒツパリ バネ	
73	FS1 – 2707 – 000		2	SPRING, TENSION ヒツパリ バネ	
74	FA9 – 2609 – 000		2	SPRING,TENSION ヒツパリ バネ	
75	FH7 – 1584 – 000		2	MOTOR, GEARD, DC24V DC ギヤード モータ	
76	FA5 – 2858 – 000		1	PLATE, SEP.ROLLER, REAR, LOWER シタ プンリ ジク シバン (ウシロ)	
77	FF2 – 0089 – 000		1	PLATE, SEP.ROLLER, FRONT,LOWER シタ プンリ ジク シバン (マエ)	
78	FA5 – 2870 – 000		1	PLATE,RELEASE,SEP.ROLLER,LOWER プンリ ローラ カイジヨ バン(シタ)	
79	FA5 – 2820 – 020		1	BASE, CASSETTE HOLDER, LOWER ステー (シタ)	
80	FA5 – 2838 – 020		1	GUIDE, ENTRY, LOWER シンニユウ ガイド (シタ)	
81	FA5 – 2862 – 000		1	ARM,PICK – UP ROLLER, LOWER REAR キユウシ ローラ アーム (シタ ウシロ)	
82	FA5 – 2860 – 000		1	GUIDE, PAPER SENSING, LOWER カミ ケンチ ガイド (シタ)	
83	FA5 – 2861 – 000		1	ARM,PICK – UP ROLLER,LOWER FRONT キユウシ ローラ アーム (シタ マエ)	
84	FA5 – 2930 – 000		2	ARM, RELEASE オク カイジヨ アーム	
85	FF9 – 1003 – 000		2	ROLLER A, 1 A ローラ (1)	
85A	FA5 – 2854 – 020		1	ROLLER, PICK – UP, RUBBER キユウシ ローラ ゴム	
86	FF9 – 1113 – 000		2	ROLLER, PICK – UP, REAR, SILVER キユウシ ローラ (ウシロ) (ギン)	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
313 – 86A	FA5 – 2854 – 020		1	ROLLER, PICK – UP, RUBBER キユウシ ローラ ゴム	
87	FA5 – 2927 – 000		1	ARM, RELEASE, UPPER, REAR オク カイジヨ アーム (ウエ)	
88	FA5 – 2928 – 000		1	ARM, RELEASE, LOWER, REAR オク カイジヨ アーム (シタ)	
89	WT2 – 5011 – 000		6	CLIP, CABLE エツジ サドル	
90	WT2 – 5034 – 000		4	BUSHING ブツシング	
91	FF2 – 5890 – 000		1	CABLE, PAPER SIZE SENSING ペーパ サイズ ケンチ ケーブル	
92	FB1 – 5910 – 000		1	MOUNT, CORD CLAMP マエ ソクバン ブリツジ	
93	FA5 – 3288 – 000		1	COVER, CORD コード カバー	
94	FS1 – 1206 – 000		2	BUSHING ブツシング	
95	XD9 – 0103 – 000		6	PIN, DOWEL ヘイコウ ピン	
96	XD9 – 0104 – 000		4	PIN, DOWEL ヘイコウ ピン	

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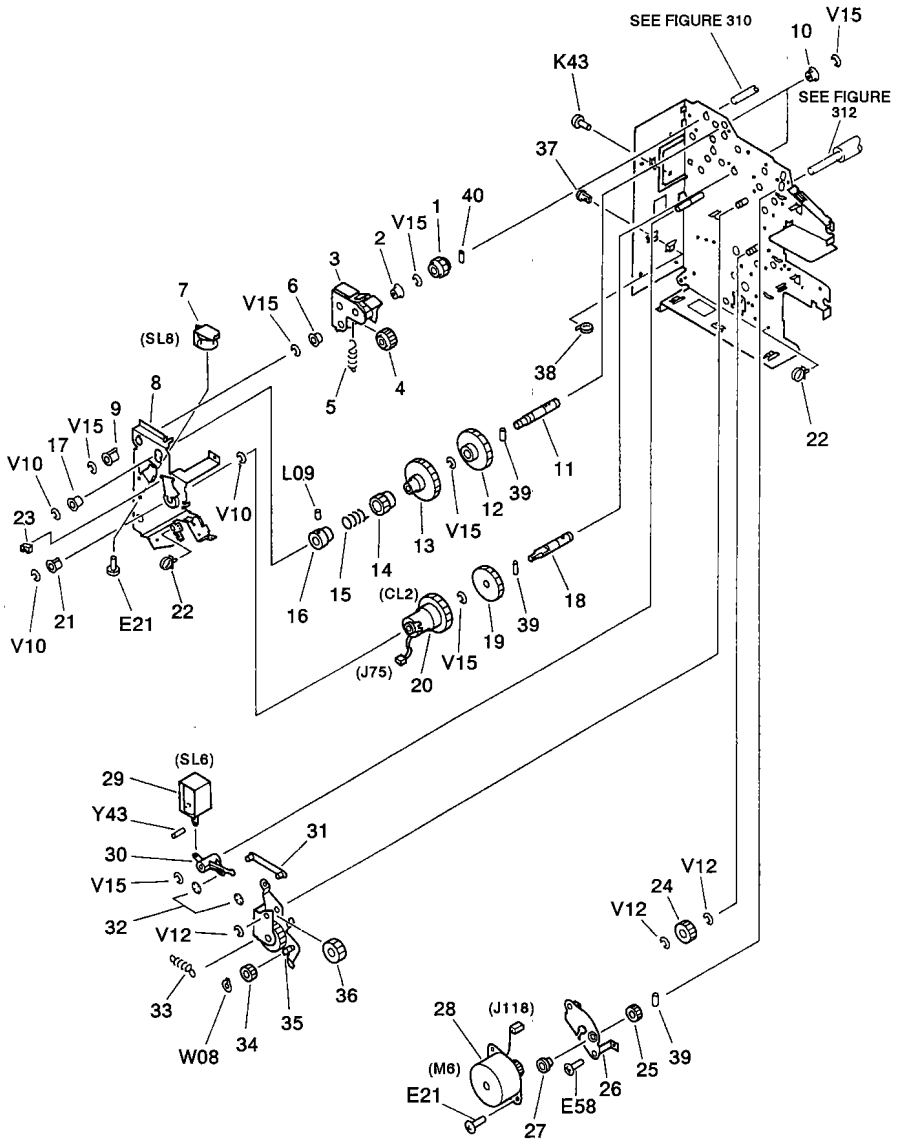
FIGURE 314 PAPER PICK-UP ASSEMBLY 5
給紙部 (5)



NOTE : This assembly comes with all the parts shown in Figures 310, 311, 312, 313 and 314.

注 : このユニットは、 Figure 310, 311, 312, 313 と 314 の全てのパーツで構成されています。

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
314 –	FG5 – 1210 – 110		1	PAPER PICK – UP ASSEMBLY キュウシ ブ	SEE NOTE
1	FS3 – 0026 – 000		1	GEAR, 24T 24T ギア	
2	XG3 – 8012 – 355		1	BEARING, BALL ボール ベアリング	
3	FF2 – 0090 – 000		1	GEAR UNIT, 25T/25T ニユウリヨク ヨウドウ バン	
4	FS1 – 0679 – 000		1	GEAR, 24T 24T ギア	
5	FS1 – 2708 – 000		1	SPRING, TENSION ヒツパリ バネ	
6	XG3 – 8016 – 505		1	BEARING, BALL ボール ベアリング	
7	FH7 – 5154 – 000		1	SOLENOID, DC24V ソレノイド	
8	FA5 – 2906 – 020		1	MOUNT, SHAFT, UPPER クドウ ウワイタ	
9	FS1 – 1462 – 000		1	BUSHING ブッシング	
10	FS1 – 1449 – 000		3	BUSHING ブツシング	
11	FA5 – 2903 – 000		1	SHAFT, CRUTCH クラッチ ジク	
12	FS3 – 0025 – 000		1	GEAR, 49T 49T ギア	
13	FS3 – 0024 – 000		1	GEAR, 49T 49T ギア	
14	FA5 – 2905 – 000		1	RING, RATCHET セイギヨカン	
15	FS3 – 2010 – 000		1	SPRING, TORSION ネジリ バネ	
16	FA5 – 2904 – 000		1	DRUM, CRUTCH クラッチ ドラム	
17	FS1 – 1257 – 000		1	BUSHING ブツシング	
18	FA5 – 2932 – 000		1	SHAFT, CLUTCH, II クラッチ ジク (II)	
19	FS3 – 0028 – 000		1	GEAR, 43T 43T ギア	
20	FH7 – 5156 – 000		1	ELECTROMAGNETIC CLUTCH, DC24V デンジ クラッチ	
21	FS1 – 1446 – 000		1	BUSHING ブツシング	
22	WT2 – 5041 – 000		11	TIE, CABLE ソクセン バンド	
23	WT2 – 5011 – 000		1	CLIP, CABLE エツジ サドル	
24	FS3 – 0101 – 000		1	GEAR, 26T 26T ギア	
25	FS3 – 0031 – 000		1	GEAR, 28T 28T ギア	
26	FA5 – 2881 – 000		1	MOUNT, MOTOR モータ シバン	
27	FS2 – 1009 – 000		1	BUSHING ジク ウケ	
28	FH7 – 1774 – 000		1	MOTOR, STEPPING, DC24V ステツピング モータ	
29	FH7 – 5030 – 030		1	SOLENOID, DC24V ソレノイド	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
314 – 30	FA5 – 2911 – 000		1	ARM, SOLENOID キリカエ ソレノイド アーム	
31	FA5 – 2909 – 000		1	ARM キリカエ ヨウドウ バン	
32	XD9 – 0037 – 000		2	RING, SE SE リング	
33	FS3 – 2013 – 000		1	SPRING, TENSION ヒツパリ バネ	
34	FS3 – 0032 – 000		1	GEAR, 15T 15T ギア	
35	FF2 – 0091 – 000		1	GEAR UNIT, 26T キリカエ ヨウドウ バン	
36	FS3 – 0030 – 000		1	GEAR, 22T 22T ギア	
37	WT2 – 0403 – 000		2	RETAINER, CORD コード ロツク	
38	WT2 – 0030 – 000		2	TIE, CABLE ソクセン バンド	
39	XD9 – 0104 – 000		3	PIN, DOWEL ヘイコウ ピン	
40	XD9 – 0108 – 000		1	PIN, DOWEL ヘイコウ ピン	

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FIGURE 325 MANUAL FEED GUIDE ASSEMBLY
手差しガイド部

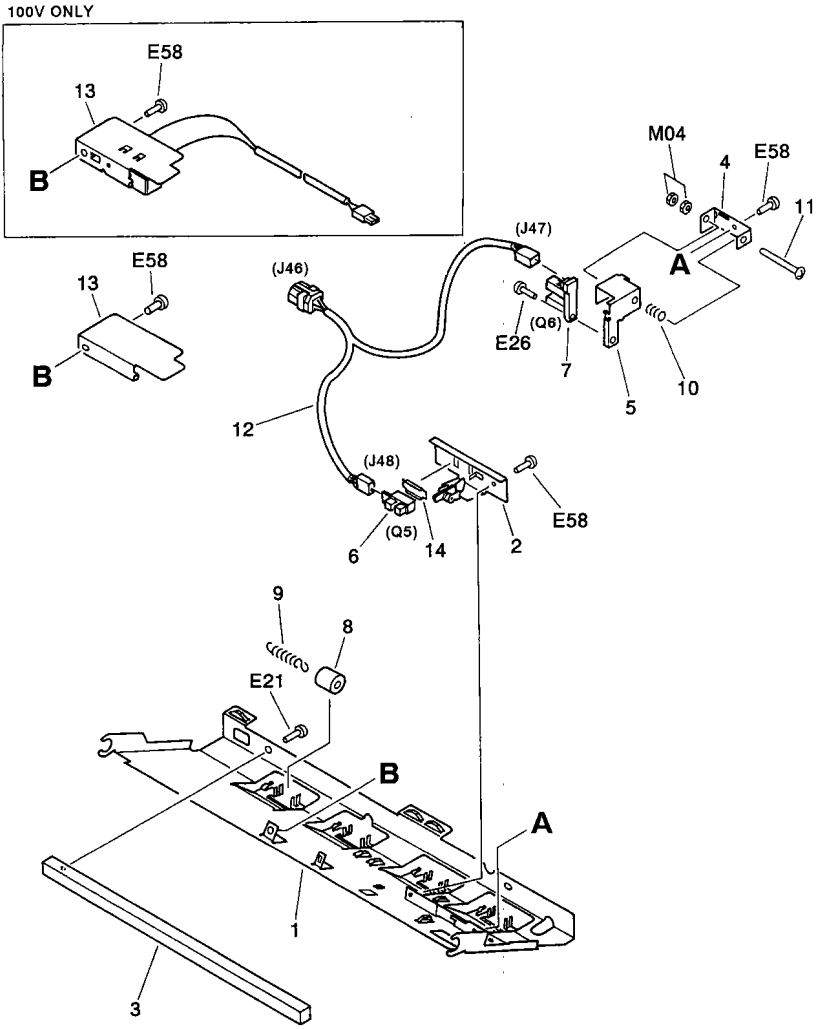

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
325 –	FG5 – 1341 – 000		1	MANUAL FEED GUIDE ASSEMBLY テザシ ガイド ブ	P
	FG5 – 1351 – 000		1	MANUAL FEED GUIDE ASSEMBLY テザシ ガイド ブ	L
	FG5 – 1352 – 000		1	MANUAL FEED GUIDE ASSEMBLY テザシ ガイド ブ	N, Q, R, S, T, U
1	FF2 – 0094 – 030		1	GUIDE, PAPER, UPPER テザシ ウエ ガイド	
2	FF2 – 0095 – 040		1	MOUNT, SENSOR レジスト マエ センサ シバン	
3	FA5 – 2946 – 000		1	SHAFT, WEIGHT ウエイト バー	
4	FA5 – 2947 – 000		1	MOUNT, SENSOR センサ キバン	
5	FA5 – 2948 – 000		1	HOLDER, SENSOR センサ ホルダ	
6	FH7 – 7155 – 000		1	PHOTO – INTERRUPTER フオトインタラプタ	
7	FH7 – 7198 – 020		1	PHOTO – INTERRUPTER フオトインタラプタ	N, P, Q, R, S, T, U
	FH7 – 7224 – 000		1	PHOTO – INTERRUPTER フオトインタラプタ	L
8	FS2 – 6002 – 000		4	ROLLER コロ	
9	FS3 – 2016 – 000		4	SPRING, TENSION ヒツパリ バネ	
10	FS3 – 2017 – 000		1	SPRING, COMPRESSION アツシユク バネ	
11	XB1 – 2405 – 009		1	SCREW,MACH.,TRUSS HEAD,M4X50 バインド ネジ	
12	FF2 – 6942 – 000		1	CABLE, MANUAL FEED GUIDE ASS'Y テザシ ガイド ソクセン	
13	FF2 – 4556 – 000		1	CABLE ドラム ヒータ ソクセン	P
	FF2 – 6941 – 000		1	CABLE, DRUM HEATER UNIT ドラム ヒータ ユニツト ソクセン	L
14	FA5 – 2949 – 000		1	SHEET, INSULATION ゼツエン シート	

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FIGURE 330 FEEDER ASSEMBLY
搬送部

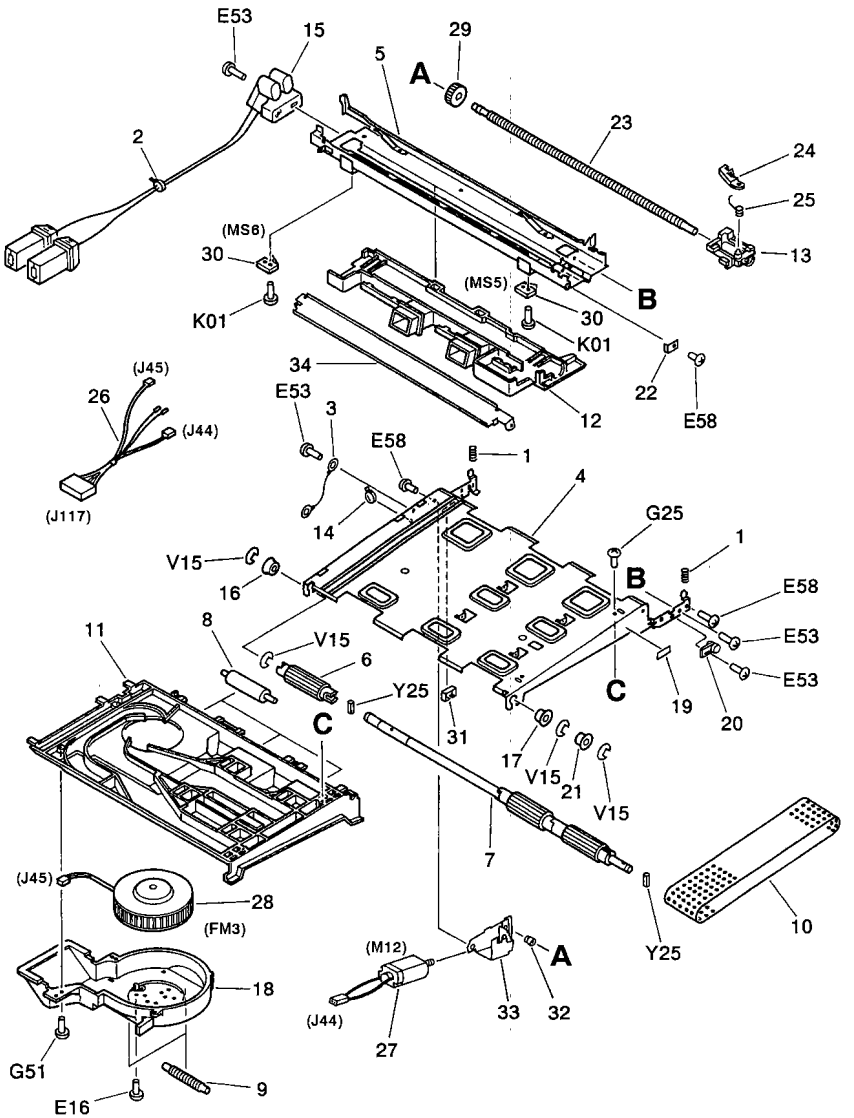

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
330 –	FG5 – 1203 – 030		1	FEEDER ASSEMBLY ハンソウ ブ	
1	FS3 – 2029 – 000		2	SPRING, COMPRESSION アツシユク バネ	
2	WT2 – 0030 – 000		1	TIE, CABLE ソクセン バンド	
3	FF2 – 6943 – 000		1	CORD, GROUNDING アース コード	
4	FB1 – 5848 – 000		1	PLATE, GUIDE ハンソウ ガイド	
5	FF5 – 0931 – 000	N	1	PLATE, FRAME ハンソウ ステー	
6	FA5 – 2618 – 000		3	ROLLER, DRIVE クドウ ローラ	
7	FA5 – 2619 – 000		1	SHAFT, DRIVE クドウ ジク	
8	FA5 – 2620 – 000		3	ROLLER, DRIVEN ジユウドウ コロ	
9	FA5 – 1896 – 000		2	PULLEY アイドラ プーリ	
10	FA5 – 2622 – 000		3	BELT ハンソウ ベルト	
11	FB1 – 5851 – 000		1	DUCT, FEEDER ハンソウ ダクト	
12	FB1 – 5852 – 000		1	DUCT ダクト	
13	FB1 – 5854 – 000		1	BLOCK コマ	
14	WT2 – 5041 – 000		1	TIE, CABLE ソクセン バンド	
15	FH2 – 9092 – 000		1	CORD, HI – VOLTAGE コウアツ コード	
16	FS1 – 1202 – 000		1	BUSHING ブッシング	
17	FS1 – 1462 – 000		1	BUSHING ブッシング	
18	FB1 – 5850 – 000		1	CASE, FAN ファン ケース	
19	FS2 – 8614 – 000		1	LABEL, "WARNING,HIGH VOLTAGE" コウアツ チユウイ メイハン	220/240V
	FS8 – 8194 – 000		1	LABEL, WARNING コネクタ チユウイ ラベル	115V
20	FB1 – 5856 – 000		1	BUSHING スクリユ ササエ	
21	FA9 – 2112 – 000		1	BUSHING ブッシング	
22	FB1 – 5860 – 000		1	PLATE, LOCK コテイ バン	
23	FB1 – 6018 – 000		1	FEEDSCREW, CLEANER クドウ スクリユ	
24	FB1 – 6015 – 000		1	PLATE, CAM カム プレート	
25	FB1 – 6021 – 000		1	SPRING, TORSION ネジリ バネ	
26	FF2 – 4535 – 000		1	CABLE, FEEDER ハンソウ ソクセン	
27	FH7 – 1763 – 000		1	MOTOR, DC12V モータ	
28	FH7 – 1764 – 000		1	FAN, DC24V ファン モータ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
330 – 29	FS3 – 0812 – 000		1	GEAR, 18T 18T ギア	
30	WC4 – 0138 – 000		2	MICROSWITCH マイクロ スイツチ	
31	WT2 – 5056 – 000		1	CLIP, CORD コード オサエ	
32	FB1 – 5758 – 000		1	BUSHING ブツシング	
33	FB1 – 5861 – 000		1	MOUNT, MOTOR モータ シダイ	
34	FB1 – 5862 – 000		1	PLATE, REINFORCEMENT ホキョウバン	

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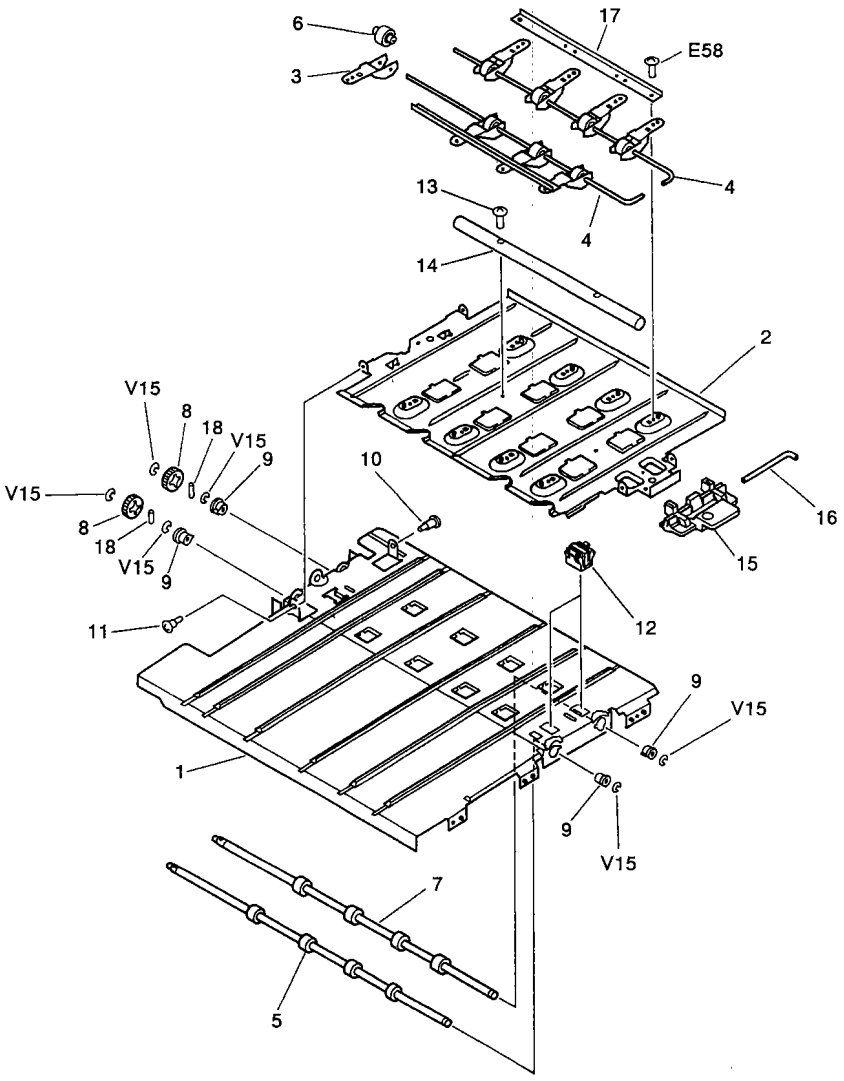
FIGURE 331 LOWER FEEDER ASSEMBLY
下搬送部



NOTE : This assembly does not include the parts shown with key No. 15 and 16.

注 ： このユニットに、 Key No. 15, 16 の部品は含まれません。

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
331 –	FG5 – 1222 – 000	N	1	LOWER FEEDER ASSEMBLY シタ ハンソウ ブ	
1	FF5 – 0969 – 000	N	1	PAPER GUIDE, LOWER ハンソウ シタ ガイド	
2	FF5 – 0967 – 000	N	1	PAPER GUIDE, UPPER ハンソウ ウエ ガイド	
3	FA5 – 3073 – 000		8	HOLDER, ROLLER ハンソウ コロ ササエ イタ	
4	FA5 – 3075 – 020		2	ROD ハンソウ コロ ジク	
5	FA5 – 3076 – 000		1	ROLLER, FEEDER, 1 ハンソウ ローラ 1	
6	FA5 – 3077 – 000		8	ROLLER ハンソウ コロ	
7	FA5 – 3078 – 000		1	ROLLER, FEEDER ハンソウ ローラ	
8	FS1 – 0542 – 000		2	GEAR, 22T 22T ギア	
9	FS1 – 1462 – 000		4	BUSHING ブッシング	
10	FS1 – 9004 – 000		1	SCREW, STEPPED, M4 ダンビス	
11	FS1 – 9076 – 000		1	SCREW, STEPPED, M4 ダンビス	
12	FB1 – 5985 – 000		2	LATCH, MAGNET – ACTION, CATCH マグネット キャッチ	
13	XB1 – 2401 – 509		2	SCREW,MACH.,TRUSS HEAD,M4X15 バインド ネジ	
14	FB1 – 5978 – 000		1	WEIGHT ウエイト	
15	FB1 – 6126 – 000		1	HANDLE シタ ハンソウ トッテ	SEE NOTE
16	FA5 – 3022 – 000		1	ROD カイテン ジク	SEE NOTE
17	FB1 – 6450 – 000		2	PLATE ガイド ステー	
18	XD9 – 0108 – 000		2	PIN, DOWEL ヘイコウ ピン	

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FIGURE 332 LOWER FEEDER INLET ASSEMBLY
下搬送入口部

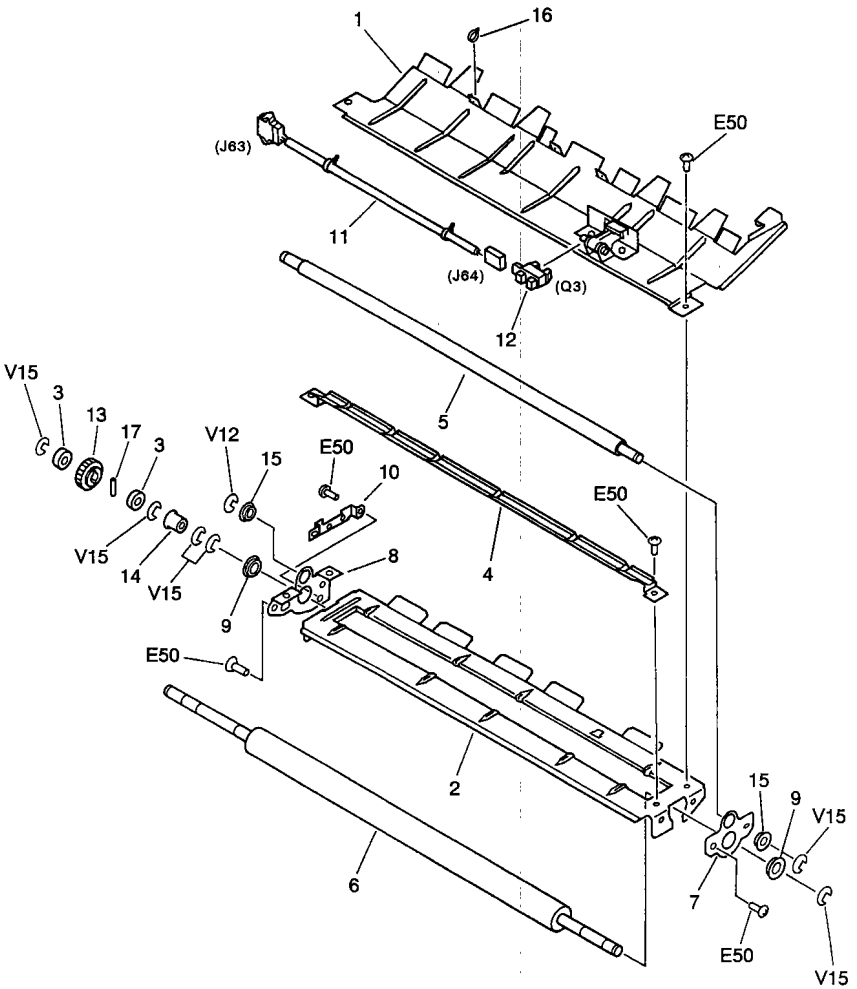

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
332 –	FG5 – 1221 – 040	N	1	LOWER FEEDER INLET ASSEMBLY シタ ハンソウ イリグチ ブ	
1	FF5 – 0965 – 000		1	PLATE, UPPER GUIDE イリグチ ウエ ガイド	
2	FF5 – 0966 – 000		1	PLATE, LOWER GUIDE イリグチ シタ ガイド	
3	FS5 – 6151 – 000		2	ROLLER, A ツキアテ コロ (A)	
4	FB1 – 5972 – 000		1	PLATE, UPPER GUIDE B イリグチ ウエ ガイド (B)	
5	FB1 – 5974 – 020		1	ROLLER SHAFT, FEEDER, UPPER シタ ハンソウ ローラ (ウエ)	
6	FB1 – 5975 – 030		1	ROLLER SHAFT, FEEDER, LOWER シタ ハンソウ ローラ (シタ)	
7	FB1 – 5976 – 000		1	PLATE, ROLLER HOLDING, FRONT ローラ シバン (マエ)	
8	FB1 – 5981 – 000		1	PLATE, ROLLER HOLDING, REAR ローラ シバン (ウシロ)	
9	XG9 – 0258 – 000		2	BEARING ベアリング	
10	FB1 – 5982 – 000		1	PLATE, GUIDE コード ガイド	
11	FF9 – 0974 – 000		1	CABLE ハンソウ ソクセン	
12	FH7 – 7155 – 000		1	PHOTO – INTERRUPTER フオトインタラプタ	
13	FS2 – 0439 – 000		1	GEAR, 22T 22T ギア	
14	FS2 – 1010 – 000		1	BUSHING ブッシング	
15	XG9 – 0243 – 000		2	BEARING ベアリング	
16	WT2 – 5041 – 000		5	TIE, CABLE ソクセン バンド	
17	XD9 – 0104 – 000		1	PIN, DOWEL ヘイコウ ピン	

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FIGURE 333 FEEDER RELEASE HANDLE ASSEMBLY
搬送解除把手部

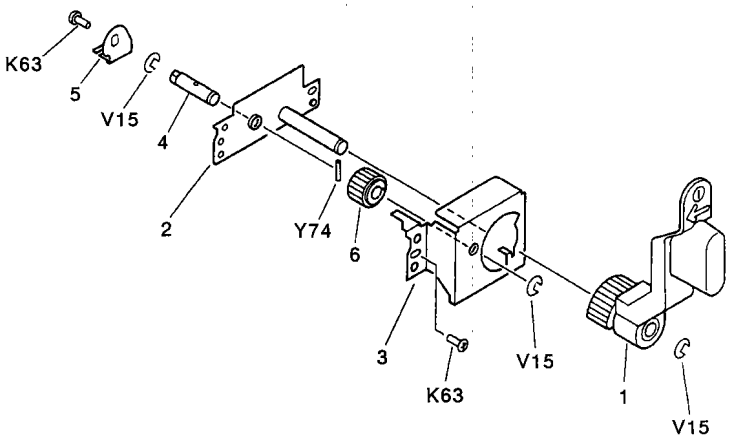

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
333 –	FG5 – 1205 – 000	N	1	FEEDER RELEASE HANDLE ASSEMBLY ハンソウ カイジョ トツテ ブ	
1	FB1 – 5883 – 000		1	HANDLE トツテ	
2	FF2 – 0110 – 000	N	1	MOUNT, HANDLE, LOWER ハンソウカアツ トツテ ダイ (シタ)	
3	FB1 – 5884 – 000		1	PLATE, UPPER ウエ イタ	
4	FA5 – 2652 – 000		1	SHAFT, GEAR ギア ジク	
5	FA5 – 2654 – 000		1	HOOK, SPRING バネ カケ	
6	FS3 – 0046 – 000		1	GEAR, 20T 20T ギア	

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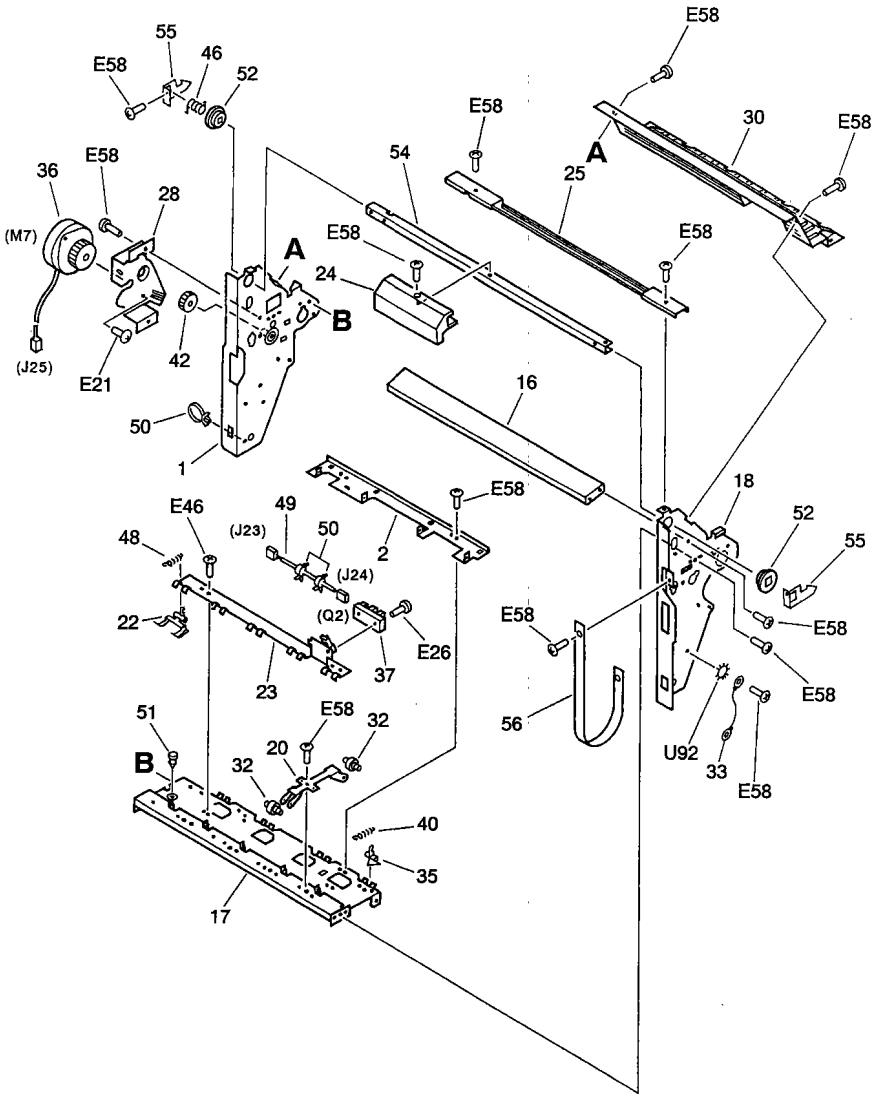
FIGURE 350 DELIVERY ASSEMBLY(1/2)
排紙部 (1/2)



NOTE : This assembly does not include the part shown with key No. 56.

注 : このユニットに、 Key No. 56 の部品は含まれません。

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FIGURE 350 DELIVERY ASSEMBLY(2/2)
排紙部 (2/2)

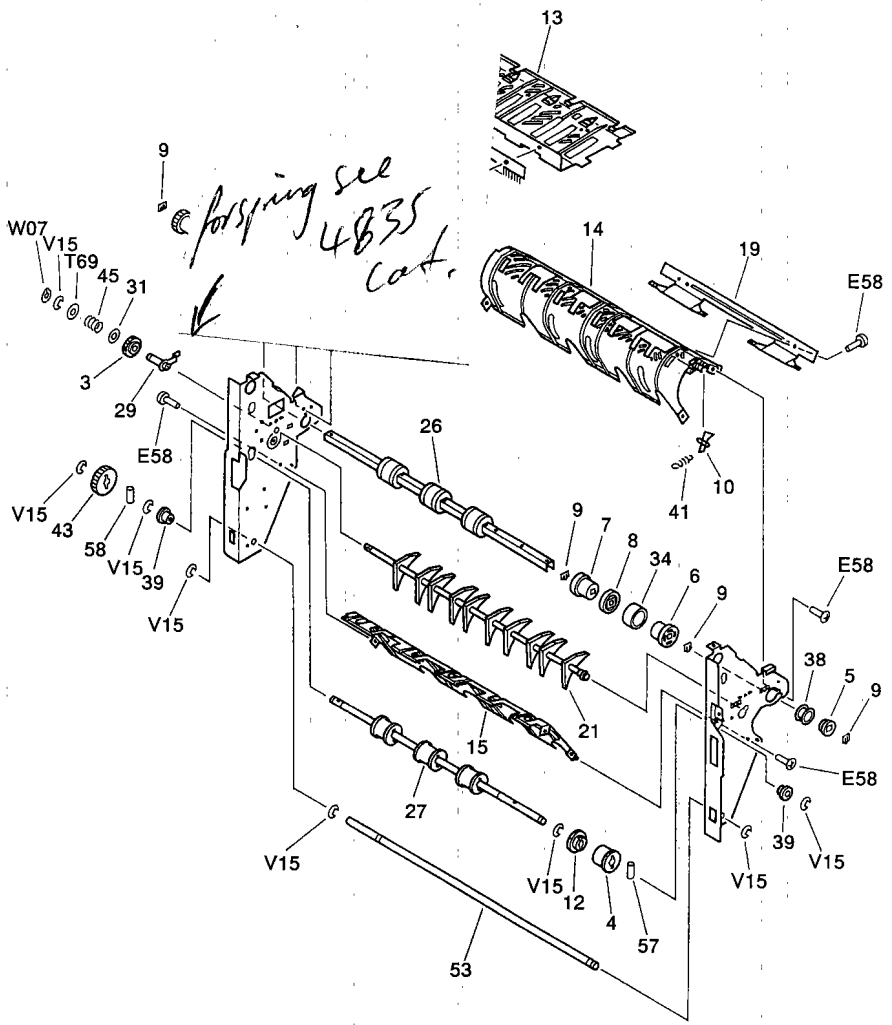

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
350 –	FG5 – 1219 – 000		1	DELIVERY ASSEMBLY ハイシ ブ	
1	FF5 – 0962 – 000	N	1	SIDE PLATE, DELIVERY, REAR ハイシ ウシロ ソクバン	
2	FB1 – 5961 – 000		1	HOLDER, SEPARATION CLAW, UPPER ウエ ブンリ ツメ オサエ	
3	FF2 – 0108 – 000		1	GEAR, 22T 22T ギア	
4	FF9 – 0861 – 000		4	ROLLER, DELIVERY ハイシ ローラ	
5	FA2 – 8244 – 000		1	BUSHING ブッシング	
6	FA2 – 8290 – 030		4	ROLLER, DELIVERY ハイシ コロ	
7	FA2 – 8291 – 030		1	ROLLER, PAPER SENSING カミ ケンチ ローラ	
8	FA2 – 8319 – 020		4	ROLLER, DELIVERY, LOWER ハイシ ローラ(シタ)	
9	FA2 – 8361 – 000		10	RETAINER キンテイ	
10	FA2 – 9037 – 000		4	CLAW, SEPARATION, LOWER ブンリ ツメ(シタ)	
11	FA3 – 3129 – 020		1	ELIMINATOR, STATIC CHARGE ジョデンキ	
12	FA3 – 9290 – 000		4	FLANGE, DELIVERY フランジ	
13	FB1 – 5951 – 000		1	GUIDE, UPPER ウエ ガイド	
14	FB1 – 5952 – 000		1	GUIDE, LOWER シタ ガイド	
15	FA5 – 3028 – 000		1	PAPER GUIDE, DELIVERY ハンテン ガイド	
16	FB1 – 5955 – 000		1	CROSSMEMBER, UPPER ハイシ ウエ ステー	
17	FB1 – 5954 – 000		1	CROSSMEMBER ハイシ ナカ ステー	
18	FB1 – 5956 – 000	N	1	SIDE PLATE, DELIVERY, FRONT ハイシ マエ ソクバン	
19	FB1 – 5962 – 000		1	HOLDER, SEPARATION CLAW, LOWER シタ ブンリ ツメ オサエ	
20	FB1 – 5963 – 000		4	HOLDER, ROLLER ハイシ コロ ササエイタ	
21	FA5 – 3036 – 000		1	FLAPPER, 1 ダイ 1 フラツパ	
22	FA5 – 3037 – 000		5	FLAPPER, 2 ダイ 2 フラツパ	
23	FF5 – 0964 – 000		1	PLATE, FLAPPER HOLDER フラツパ オサエ	
24	FB1 – 5960 – 000		1	HANDLE ハイシ トツテ	
25	FB1 – 5958 – 000		1	CROSSMEMBER, DELIVERY, UPPER ハイシ ウエ ステイ	
26	FA5 – 3041 – 000		1	CROSSMEMBER, GRIP トツテ カクジク	
27	FA5 – 3042 – 000		1	SHAFT, ROLLER ハイシ ローラ ジク	
28	FB1 – 5966 – 000		1	MOUNT, MOTOR モータ シダイ	
29	FA5 – 3045 – 000		1	HOLDER, FLAPPER フラツパ ホルダ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
350 – 30	FB1 – 5959 – 000		1	COVER, INSULATING ダンネツ カバー	
31	FA5 – 3046 – 000		1	STOPPER, THRUST スラスト オサエ	
32	FA5 – 3049 – 000		8	ROLLER ハンソウ コロ	
33	FF2 – 7096 – 000		1	WIRE, GROUNDING アース セン	
34	FA9 – 0240 – 000		4	RING, RUBBER ゴム リング	
35	FA9 – 0451 – 000		4	SEPARATION CLAW, UPPER ウエ ブンリ ツメ	
36	FH7 – 1776 – 000		1	MOTOR, STEPPING, DC24V ステッピング モータ	
37	FH7 – 7222 – 000		1	PHOTO IC TLP1224 フオトインタラプタ	
38	FS1 – 1237 – 000		2	BUSHING ブッシング	
39	FS1 – 1462 – 000		2	BUSHING ブッシング	
40	FS1 – 2833 – 000		4	SPRING, TENSION ヒツパリ バネ	
41	FS1 – 2834 – 000		4	SPRING, TENSION ヒツパリ バネ	
42	FS2 – 0392 – 000		1	GEAR, 20T 20T ギア	
43	FS3 – 0040 – 000		1	GEAR, 29T 29T ギア	
44	FS3 – 0048 – 000		1	GEAR, 23T 23T ギア	
45	FS5 – 2268 – 000		1	SPRING, COMPRESSION アッシュク バネ	
46	FS2 – 2310 – 000		1	SPRING, TORSION ネジリ バネ	
48	FS3 – 2082 – 000		5	SPRING, TENSION ヒツパリ バネ	
49	FF9 – 0982 – 000		1	CABLE, DELIVERY ハイシ ソクセン	
50	WT2 – 5041 – 000		3	TIE, CABLE ソクセン バンド	
51	FA9 – 1781 – 000		1	STOP, RUBBER ストツパ	
52	FA2 – 8225 – 000		2	BUSHING ブッシング	
53	FA5 – 3054 – 000		1	SHAFT ジク	
54	FA3 – 8937 – 000		1	CROSSMEMBER, GRIP トツテ カクジク	
55	FA3 – 8938 – 000		2	LATCH ロツク ツメ	
56	FB1 – 6122 – 000		1	STRAP, DOOR SUPPORT ホールドテープ	SEE NOTE
57	XD9 – 0104 – 000		4	PIN, DOWEL ヘイコウ ピン	
58	XD9 – 0108 – 000		1	PIN, DOWEL ヘイコウ ピン	

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FIGURE 400 MIRROR ASSEMBLY 1
第1ミラー台部

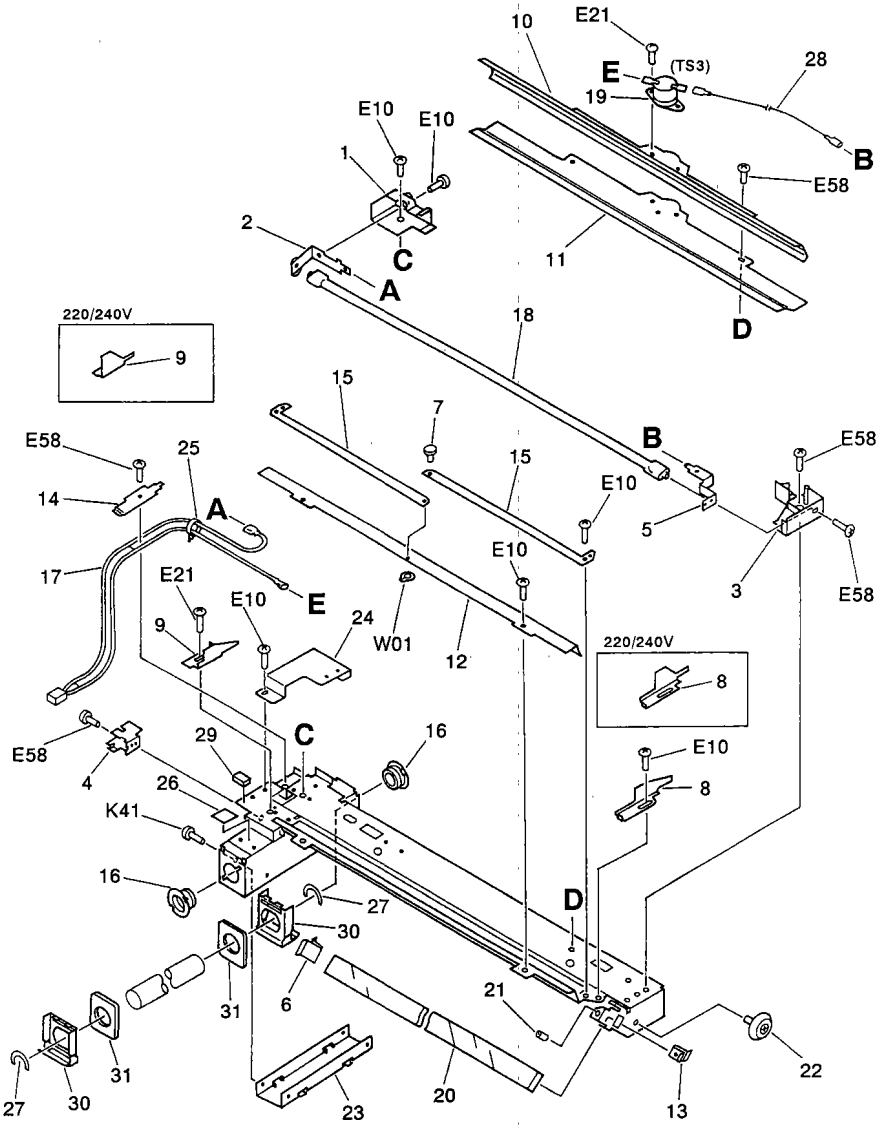

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
400 –	NPN		RF	MIRROR ASSEMBLY 1 ダイ 1 ミラー ダイ	
1	FA5 – 3229 – 000		1	MOUNT, TERMINAL デンキヨクダイ	
2	FF2 – 0607 – 000		1	TERMINAL, LAMP, REAR ランプ デンキヨク (オク)	
3	FA5 – 3226 – 020		1	MOUNT,TERMINAL, FRONT デンキヨク ダイ (マエ)	
4	FB1 – 6416 – 000		1	PLATE, HOME POSITION ホーム バン	
5	FF5 – 1038 – 000		1	TERMINAL, LAMP, FRONT ランプ デンキヨク (マエ)	
6	FA3 – 8479 – 000		1	SPRING, LEAF ダイ 1 ミラーオサエバネ	
7	FA3 – 8480 – 000		1	PIVOT, ADJUSTING PLATE スリツト チヨウセイ バン シジク	
8	FB1 – 6389 – 000		1	SIDE REFLECTOR, FRONT サイド ハンシヤバン (マエ)	100/115V
	FB1 – 6390 – 000		1	SIDE REFLECTOR, FRONT サイド ハンシヤバン (マエ)	220/240V
9	FA3 – 8482 – 030		1	SIDE REFLECTOR, REAR サイド ハンシヤバン (ウシロ)	100/115V
	FA5 – 3238 – 000		1	SIDE REFLECTOR, FRONT サイド ハンシヤバン (マエ)	220/240V
10	FB1 – 5745 – 000		1	REFLECTOR, UPPER ウエ ハンシヤバン	
11	FB1 – 5746 – 000		1	REFLECTOR, LOWER シタ ハンシヤバン	
12	FB1 – 6405 – 000		1	REFLECTOR, AUXILIARY ホジヨ ハンシヤバン	
13	FA5 – 1644 – 000		1	SPRING, LEAF, 2/3 FRONT ダイ 2/3 ミラー オサエ バネ (マエ)	
14	FA5 – 2447 – 000		1	CLAMP, CORD コード オサエ	
15	FA5 – 2448 – 000		2	SLIT スリツト	
16	FB1 – 5749 – 000		2	BUSHING ブツシング	
17	FH2 – 5843 – 000		1	CORD コード	
18	FH7 – 3246 – 000		1	LAMP, 80V, 270W ハロゲン ランプ	100/115V
	FH7 – 3247 – 000		1	LAMP, 175V, 300W ハロゲン ランプ	220/240V
19	WD8 – 0028 – 000		1	THERMOSTAT サーモスタット	
20	FN1 – 4217 – 000		1	MIRROR, 1 ダイ 1 ミラー	
21	X31 – 6240 – 880		1	SETSCREW, M4X8 ロツカク アナツキ トメネジ	
22	XG9 – 0089 – 000		1	ROLLER, GUIDE ベアリング	
23	FB1 – 5743 – 000		1	PLATE ホキヨウ バン	
24	FB1 – 5744 – 000		1	PLATE, WIRE STOP ワイヤ コテイバン	
25	WT2 – 5063 – 000		1	CLAMP クランプ	
26	FA9 – 0032 – 000		1	LABEL, VOLTAGE デンアツ シユウハスウ ラベル	100/115V

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
400 – 26	FC1 – 2235 – 000		1	LABEL デンアツ シユウハスウ ラベル	220/240V
27	FA5 – 3212 – 020		2	RING ヌケ ドメ	
28	FF2 – 6645 – 000		1	CORD コード	
29	FA9 – 2099 – 000		1	BLOCK, BLIND メカクシ ブロツク	
30	FB1 – 5747 – 000		2	HOLDER, OIL PAD オイル パツド ホルダ	
31	FB1 – 5748 – 000		2	PAD, OIL オイル パツド	

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FIGURE 401 MIRROR ASSEMBLY 2
第2ミラー台部

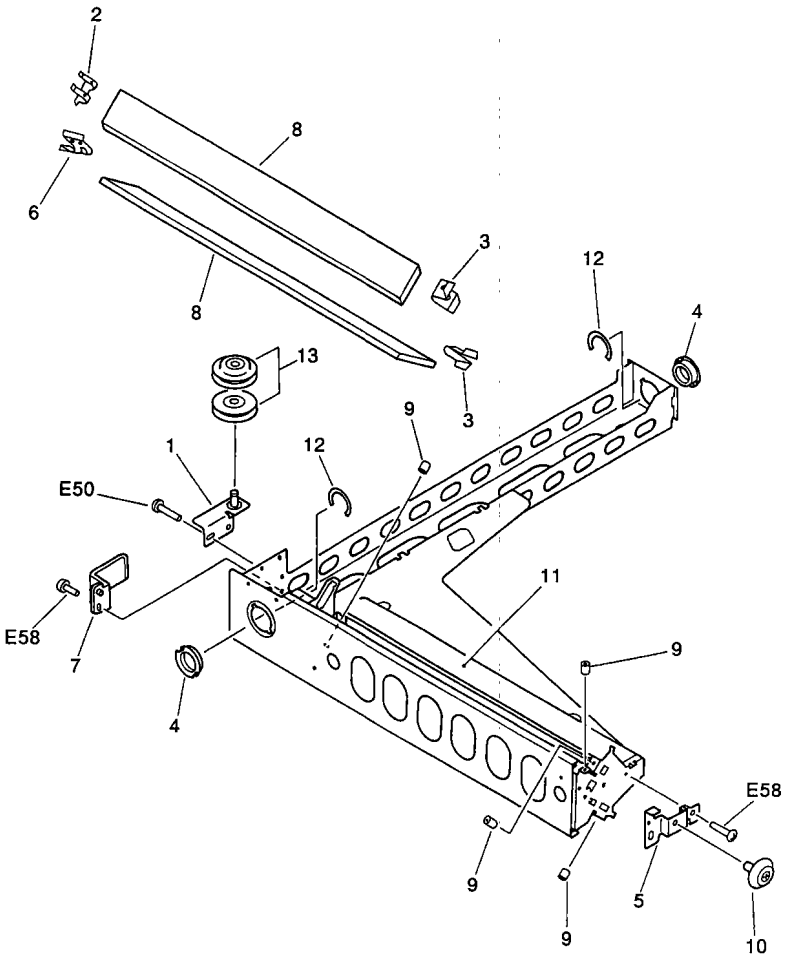

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
401 –	NPN		RF	MIRROR ASSEMBLY 2 ダイ 2 ミラー ダイ	
1	FF5 – 0984 – 000		1	MOUNT, PULLEY プーリ ダイ	
2	FA5 – 1643 – 000		1	SPRING, LEAF, 3 REAR ダイ 3 ミラー オサエ バネ (ウシロ)	
3	FA5 – 1644 – 000		2	SPRING, LEAF, 2/3 FRONT ダイ 2/3 ミラー オサエ バネ (マエ)	
4	FB1 – 5749 – 000		2	BUSHING ブツシング	
5	FB1 – 6187 – 000		1	PLATE, ADJUSTING チヨウセイ バン	
6	FA5 – 2459 – 000		1	SPRING, LEAF ダイ 3 ミラー バネ (オク)	
7	FA5 – 2460 – 000		1	GUIDE, CORD コード ガイド	
8	FN1 – 4308 – 000		2	MIRROR, 2, 3 ダイ 2, 3 ミラー	
9	X31 – 6240 – 880		4	SETSCREW, M4X8 ロツカク アナツキ トメネジ	
10	XG9 – 0089 – 000		1	ROLLER, GUIDE ベアリング	
11	FA5 – 2469 – 000		1	PLATE, CUT カツト プレート	
12	FA5 – 3212 – 020		2	RING ヌケ ドメ	
13	FB1 – 6186 – 000		2	PULLEY プーリ	

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FIGURE 500 DRUM UNIT
ドラム ユニット

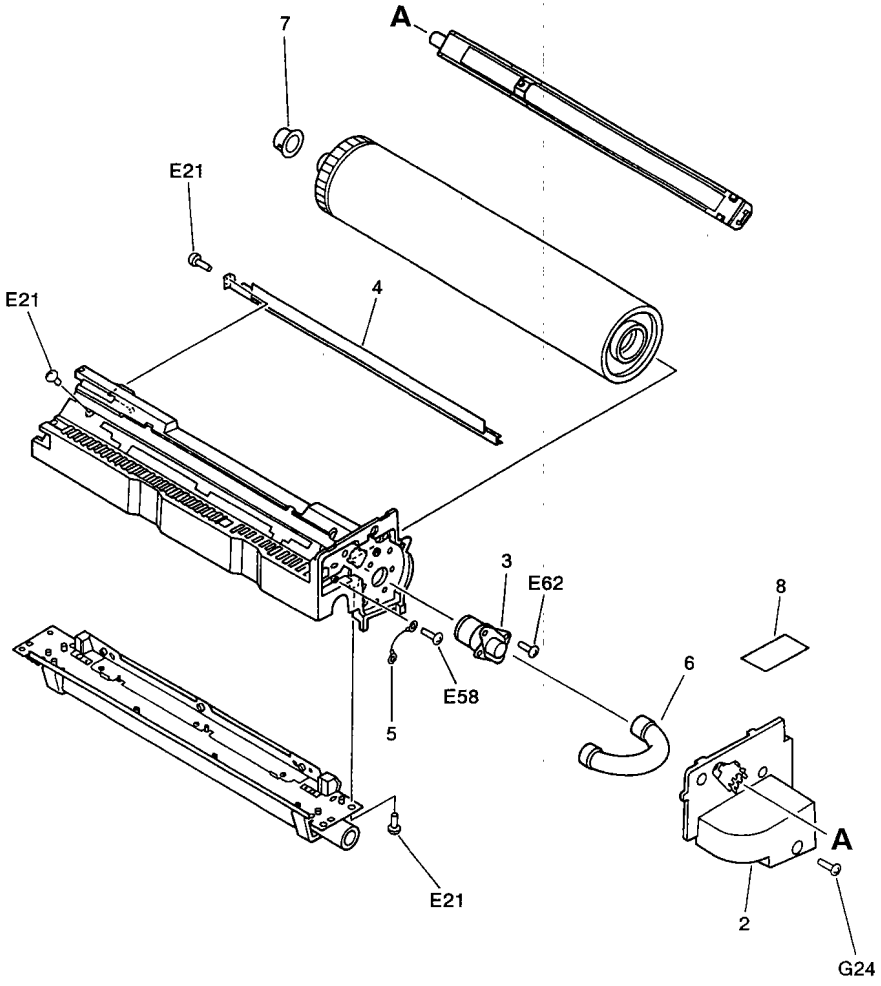

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
500 –	NPN		RF	DRUM UNIT ドラム ユニット	
2	FB1 – 5754 – 000		1	COVER キット カバー	
3	FB1 – 5755 – 000		1	SUPPORT, DRUM ドラム ササエ	
4	FF2 – 0116 – 000		1	PLATE, TONER トナー ウケ	
5	FF2 – 2495 – 000		1	WIRE, GROUNDING アースセン	
6	FA5 – 2515 – 000		1	PIPE, FEEDSCREW スクリユウ パイプ	
7	FS1 – 1447 – 000		1	BUSHING ブッシング	
8	FS2 – 8062 – 000		1	LABEL, DATE ヒヅケ ラベル	

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FIGURE 550 PRIMARY CORONA ASSEMBLY
1次帯電器

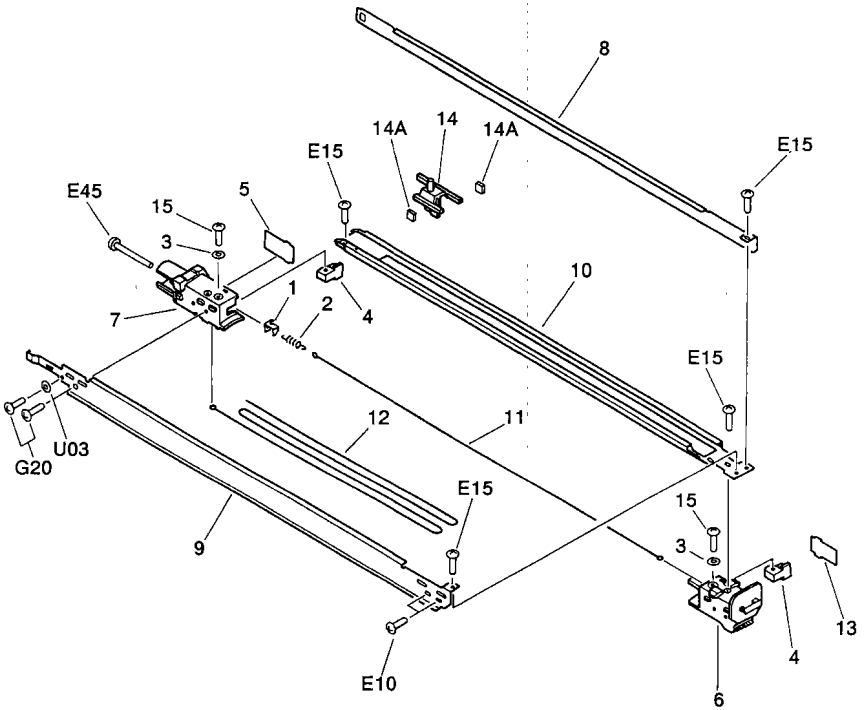

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
550 –	FG5 – 1194 – 000		1	PRIMARY CORONA ASSEMBLY 1ジ タイデンキ	
1	87 – 2608 – 000		1	TERMINAL, CORONA WIRE タイデン デンキヨク	
2	97 – 5527 – 000		1	SPRING, TENSION タイデンセン ヒツパリ バネ	
3	FA2 – 1498 – 000		2	WASHER ワツシヤ	
4	FA2 – 8884 – 000		2	GUIDE, CORONA WIRE チヨウセイグ	
5	FA5 – 2533 – 000		1	COVER, WIRE TERMINATION フタ	
6	FB1 – 5765 – 000		1	HOUSING,WIRE TERMINATION,FRONT ブロツク(マエ)	
7	FA5 – 2527 – 000		1	HOUSING, WIRE TERMINATION,REAR ブロツク(ウシロ)	
8	FB1 – 5767 – 000		1	PLATE, SHIELD, RIGHT シールド バン(ミギ)	
9	FB1 – 5768 – 000		1	PLATE, SHIELD, LEFT シールド バン(ヒダリ)	
10	FB1 – 5769 – 000		1	PLATE, SHIELD, UPPER シールド バン(ウエ)	
11	FY3 – 0030 – 000		AR	WIRE, CORONA, 0.06MM (20M) タイデンセン	100V
	FY3 – 0040 – 000		AR	WIRE, CORONA, 0.06MM (20M) タイデンセン	115/220/240V
12	Y81 – 0162 – 000		AR	WIRE, CORONA, 0.1MM (100M) タイデンセン	
13	FA3 – 8560 – 000		1	COVER, WIRE TERMINATION フタ	
14	FF5 – 0909 – 000		1	PAD, WIRE CLEANING ワイヤ クリーナ	
14A	FB1 – 5770 – 000		2	PAD パツド	
15	XA9 – 0014 – 000		2	SCREW, INSUL., C.S.HEAD, M4X12 ゼツエン ビス	
16	XB4 – 6260 – 409		1	SCREW,TAPPING,PAN HEAD,M2.6X4 ナベ タッピン ネジ	

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FIGURE 570 PRE-TRANSFER CORONA ASSEMBLY
転写前帯電器

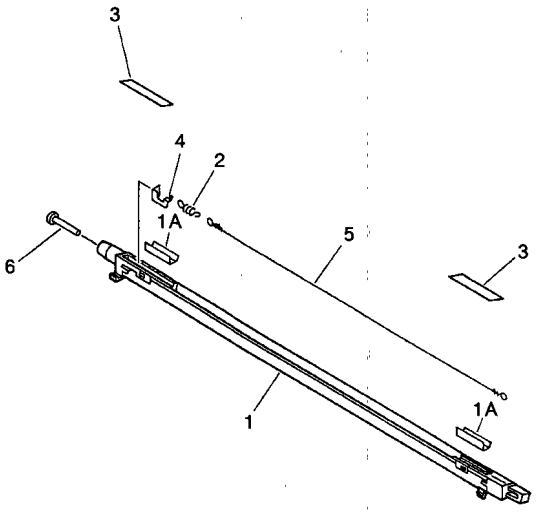

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
570 –	FG1 – 8040 – 040		1	PRE – TRANSFER CORONA ASSEMBLY テンシヤ マエ タイデンキ	
1	FF2 – 0125 – 030		1	PLATE, FRAME シールド バン	
1A	FA5 – 2553 – 000		2	SEAL シール	
2	97 – 5527 – 000		1	SPRING, TENSION タイデンセン ヒツパリ バネ	
3	FA9 – 2046 – 000		2	COVER, WIRE TERMINATION フタ	
4	FA5 – 2550 – 000		1	TERMINAL, CORONA WIRE タイデン デンキヨク	
5	FY3 – 0030 – 000		AR	WIRE, CORONA, 0.06MM (20M) タイデンセン	100V
	FY3 – 0040 – 000		AR	WIRE, CORONA, 0.06MM (20M) タイデンセン	115/220/240V
6	XA9 – 0324 – 000		1	SCREW, M2X16 ネジ	

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FIGURE 580 TRANS./SEP. CORONA ASSEMBLY
転写／分離帯電器

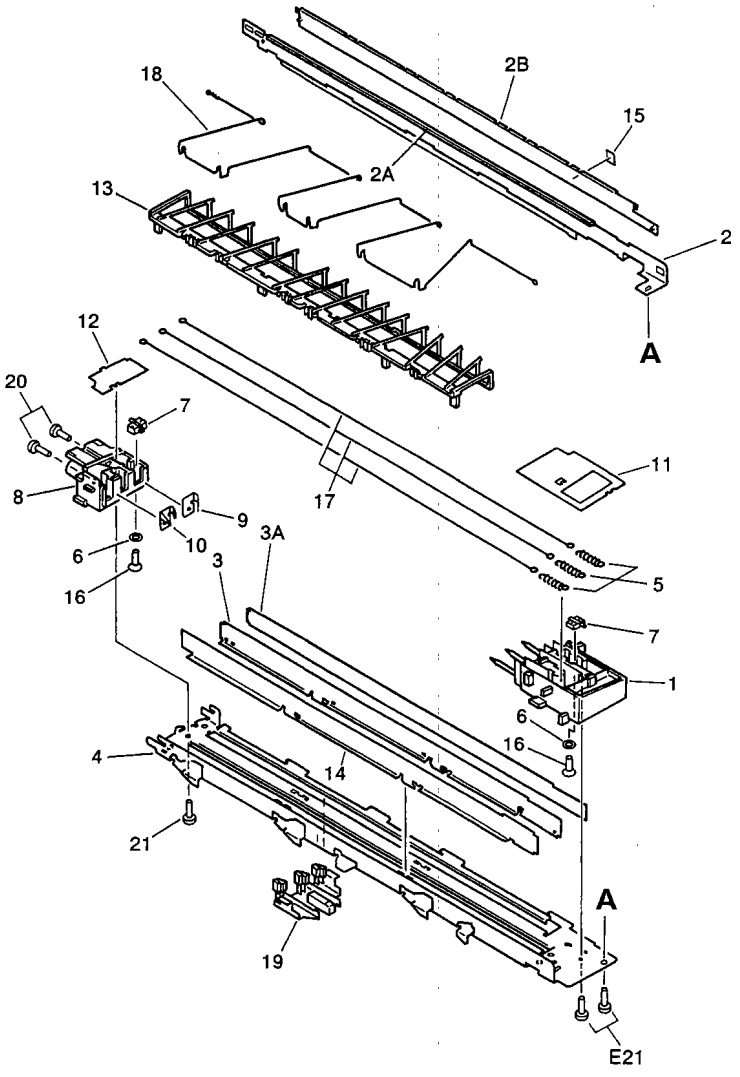

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
580 –	FG5 – 1204 – 060		1	TRANS./SEP. CORONA ASSEMBLY テンシャ/ブンリ タイデンキ	
1	FF5 – 0936 – 030		1	HOUSING,WIRE TERMINATION,FRONT ブロツク (マエ)	
2	FF5 – 0938 – 020	N	1	PLATE, FRAME シールド バン	
2A	FA6 – 3135 – 000		1	PLATE, INSULATING ゼツエン プレート	
2B	FB1 – 5877 – 000		1	PLATE, WIRE テグス ダイ (R)	
3	FF5 – 0939 – 000		1	PLATE T ナカイタ	
3A	FB1 – 5874 – 000		1	SHEET, INSULATING ゼツエン シート	
4	FB1 – 5872 – 020	N	1	PLATE, FRAME シールド バン	
5	97 – 5527 – 000		3	SPRING, TENSION タイデンセン ヒツパリ バネ	
6	FA2 – 1498 – 000		2	WASHER ワツシヤ	
7	FA3 – 8828 – 000		2	GUIDE, CORONA WIRE タイデンセン イチギメ	
8	FB1 – 5878 – 030		1	HOUSING, WIRE TERMINATION,REAR ブロツク (ウシロ)	
9	FA5 – 2637 – 000		1	TERMINAL, CORONA WIRE タイデンセン デンキヨク	
10	FA5 – 2638 – 000		1	TERMINAL, CORONA WIRE タイデンセン デンキヨク	
11	FB1 – 5785 – 020		1	COVER, WIRE TERMINATION, FRONT ブロツク フタ (マエ)	
12	FA5 – 2641 – 000		1	COVER, WIRE TERMINATION, REAR ブロツク フタ (ウシロ)	
13	FB1 – 5876 – 000	N	1	GUIDE, PAPER ブンリ ガイド	
14	FB1 – 5875 – 000		1	PLATE S ナカイタ	
15	FA5 – 2667 – 000		6	SEAL テグス ドメ	
16	XA9 – 0034 – 000		2	SCREW, INSUL., C.S.HEAD, M4X15 ゼツエン ビス	
17	FY3 – 0030 – 000		AR	WIRE, CORONA, 0.06MM (20M) タイデンセン	100V
	FY3 – 0040 – 000		AR	WIRE, CORONA, 0.06MM (20M) タイデンセン	115/220/240V
18	RY1 – 1502 – 000		AR	GUIDE, WIRE ガイド セン	
19	FF5 – 0940 – 000		1	HOLDER, FELT フエルト ホルダ	
20	XB1 – 2301 – 602		2	SCREW,MACH.,TRUSS HEAD,M3X16 バインド ネジ	
21	X71 – 5332 – 000		1	SCREW, M4X5 ポリ ビス	

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FIGURE 581 LOWER TRANSFER GUIDE ASSEMBLY
転写下ガイド部

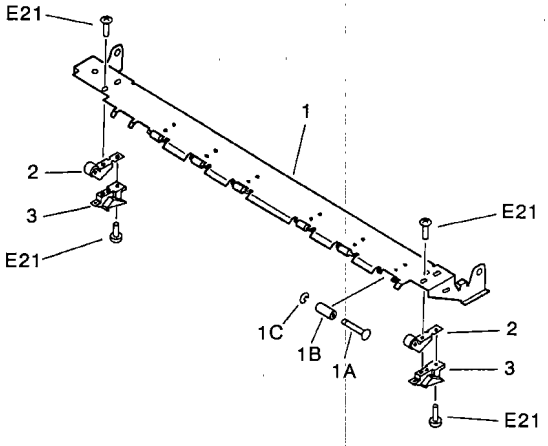

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
581 –	NPN		RF	LOWER TRANSFER GUIDE ASSEMBLY テンシヤ シタ ガイド ブ	
1	FF2 – 0169 – 020		1	GUIDE, TRANSFER, LOWER テンシヤ ガイド (シタ)	
1A	FA3 – 8811 – 000		6	SHAFT, ROLLER コロ ジク	
1B	FS1 – 6183 – 020		6	ROLLER, GUIDE ガイド コロ	
1C	XD2 – 1100 – 132		6	RING,E E リング	
2	FF1 – 5876 – 000		2	MOUNT, ROLLER ツキアテ コロ シバン	
3	FA5 – 2657 – 000		2	CAM カム	

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FIGURE 620 HOPPER ASSEMBLY
ホッパ部

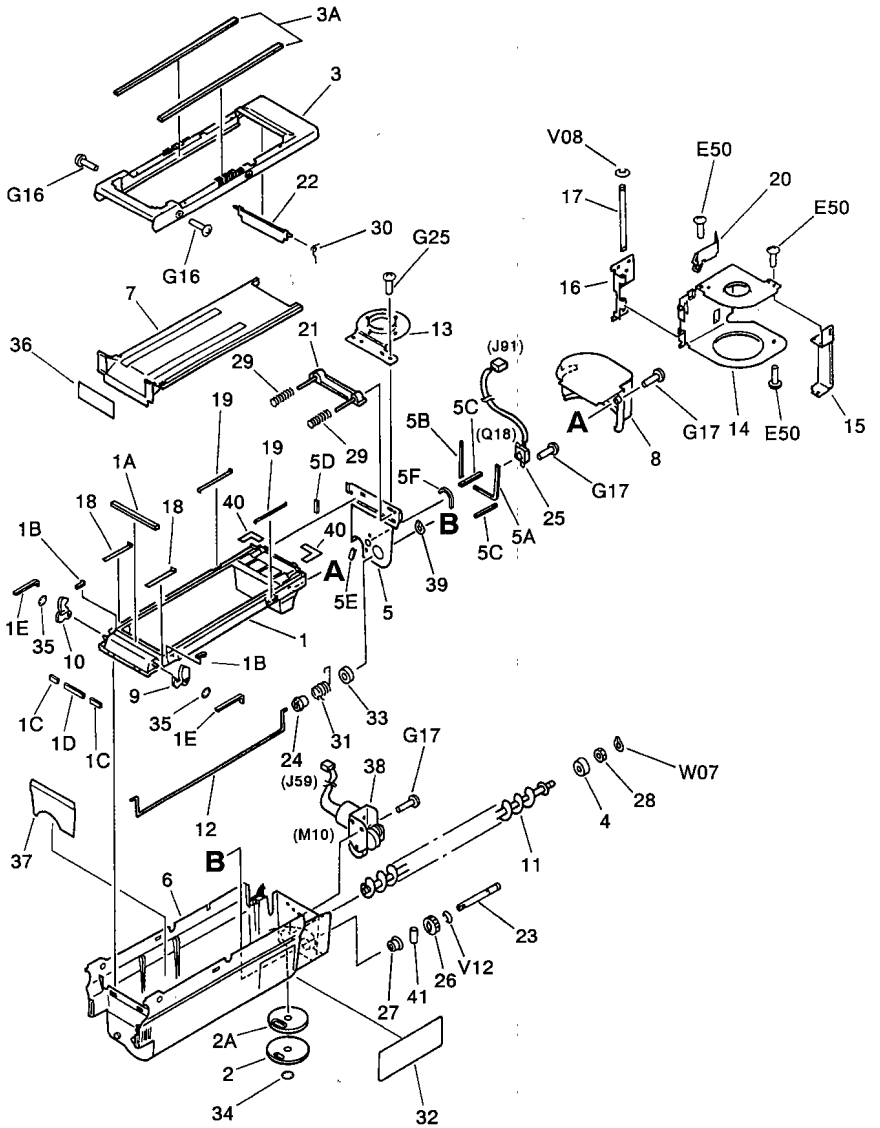

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
620 –	FG5 – 1200 – 000		1	HOPPER ASSEMBLY ホツパ ブ	
1	FF5 – 0920 – 000		1	MOUNT, SLIDE LID スライド フタ ダイ	
1A	FB1 – 5808 – 000		1	SEAL シール	
1B	FB1 – 6394 – 000		2	SEAL 2 シール (2)	
1C	FB1 – 6407 – 000		2	SEAL,A シール (A)	
1D	FB1 – 6408 – 000		1	SEAL,B シール (B)	
1E	FB1 – 6409 – 000		2	SEAL, C シール (C)	
2	FF5 – 0921 – 000		1	SHUTTER シヤツタ	
2A	FB1 – 5809 – 000		1	SEAL, SHUTTER シヤツタ シール	
3	FF5 – 1012 – 000		1	COVER, HOPPER ASSEMBLY ホツパ カバー	
3A	FB1 – 6116 – 000		2	SEAL, HOPPER COVER ホツパ カバー シール	
4	FF1 – 5896 – 000		1	BUSHING ジクウケ	
5	FF5 – 1026 – 000		1	LID ミギ ウエ フタ	
5A	FB1 – 6131 – 000		1	SEAL シール	
5B	FB1 – 5805 – 000		1	SEAL 2 シール (2)	
5C	FB1 – 6134 – 000		2	SEAL 3 シール (3)	
5D	FB1 – 6411 – 000		1	SEAL A シール (A)	
5E	FB1 – 6412 – 000		1	SEAL B シール (B)	
5F	FB1 – 6413 – 000		1	SEAL C シール (C)	
6	FB1 – 5796 – 000		1	HOPPER ホツパ	
7	FB1 – 5799 – 000		1	LID, SLIDE スライド フタ	
8	FB1 – 5800 – 000		1	COVER, MOTOR モータ カバー	
9	FB1 – 5802 – 000		1	LOCK, CARTRIDGE, FRONT カートリツジ ロツク (マエ)	
10	FB1 – 5803 – 000		1	LOCK, CARTRIDGE, REAR カートリツジ ロツク (オク)	
11	FB1 – 5806 – 000		1	FEEDSCREW, TONER ホツパ スクリユ	
12	FB1 – 5807 – 000		1	ROD, STIRRING カクハン ボウ	
13	FB1 – 5810 – 000		1	HINGE, HOPPER ホツパ カイテン ヒンジ	
14	FB1 – 5811 – 000		1	HINGE, HOPPER 1 ホツパ ヒンジ (1)	
15	FB1 – 5812 – 000		1	SUPPORT, HINGE ヒンジ ステイ	
16	FB1 – 5813 – 000		1	HINGE, HOPPER 2 ホツパ ヒンジ (2)	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
620 – 17	FB1 – 5814 – 000		1	ROD, HINGE ヒンジ シャフト	
18	FB1 – 5815 – 000		2	SPRING, LEAF イタ バネ	
19	FB1 – 5816 – 000		2	SPRING, LEAF イタ バネ	
20	FB1 – 5817 – 000		1	MOUNT, CONNECTOR コネクタ ダイ	
21	FB1 – 6115 – 000		1	COVER, BUFFER バッファ カバー	
22	FB1 – 6120 – 000		1	LID イリグチ フタ	
23	FB1 – 6392 – 000		1	SHAFT, STIRRER カクハン ジク	
24	FB1 – 6393 – 000		1	BUSHING ブッシング	
25	FH7 – 7283 – 000		1	SENSOR, TONER トナー センサ	
26	FS1 – 0708 – 000		1	GEAR, 20T 20T ギア	
27	FS1 – 1205 – 000		1	BUSHING ブッシング	
28	FS5 – 0300 – 000		1	GEAR, 16T 16T ギア	
29	FS5 – 2252 – 000		2	SPRING, COMPRESSION アッシュク バネ	
30	FS5 – 2253 – 000		1	SPRING, TORSION ネジリ バネ	
31	FS5 – 2254 – 000		2	SPRING, TORSION ネジリ バネ	
32	FS8 – 8669 – 000		1	LABEL, JAM 5 ジャム シヨリ ラベル 5	
33	XG9 – 0111 – 000		1	SEAL, OIL オイル シール	
34	XD9 – 0078 – 000		1	RING, SE SE リング	
35	XD2 – 2300 – 502		2	WASHER, LOCK, TOOTHED ハツキ ザガネ	
36	FB1 – 6401 – 000		1	LABEL ラベル	
37	FB1 – 6414 – 000		2	PLATE シキリ バン	
38	FH7 – 1762 – 000		1	MOTOR, DC24V モータ	
39	XD9 – 0061 – 000		1	RING, C C リング	
40	FB1 – 5997 – 000		2	SEAL シール	
41	XD9 – 0104 – 000		1	PIN, DOWEL ヘイコウ ピン	

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FIGURE 640 BLACK DEVELOPING ASSEMBLY
黒現像器

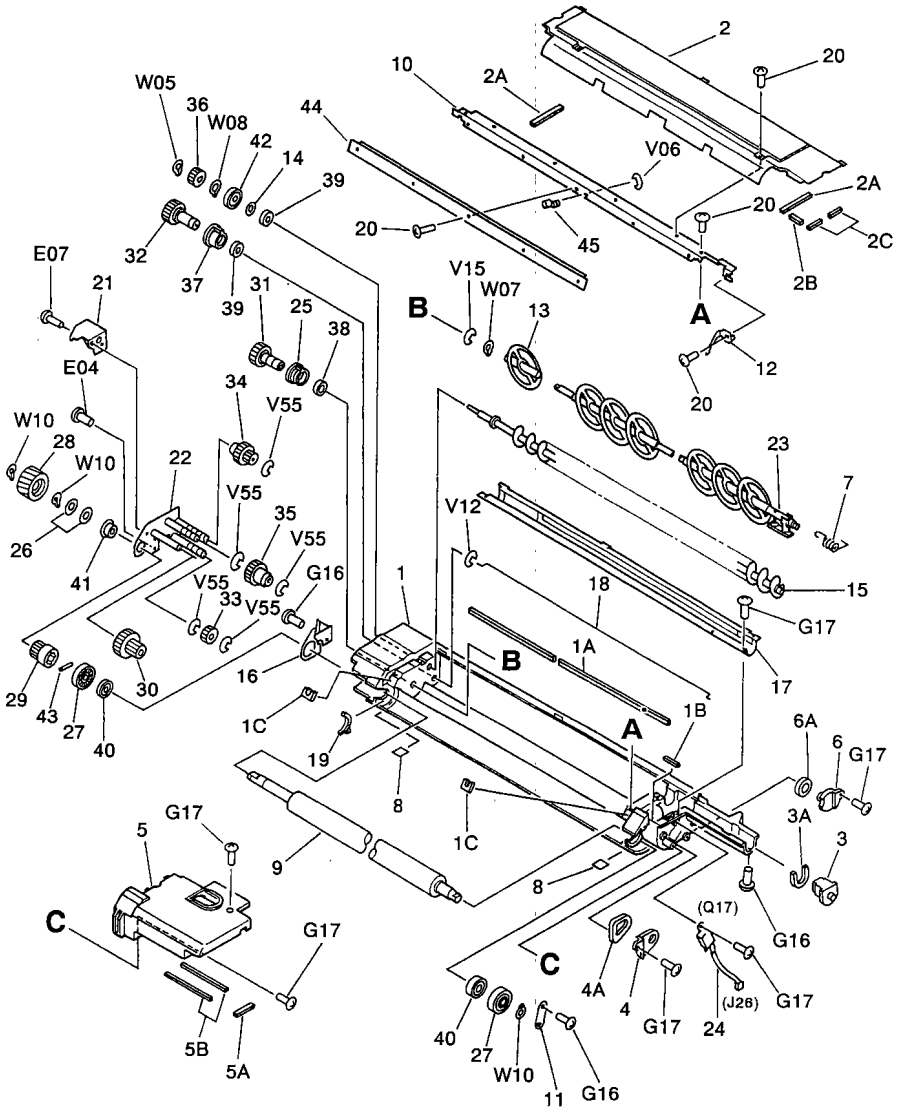

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
640 –	FG5 – 1202 – 000		1	BLACK DEVELOPING ASSEMBLY クロ ゲンゾウキ	
1	FF5 – 0924 – 000		1	HOUSING, DEVELOPING ASSEMBLY ゲンゾウ ヨウキ	
1A	FB1 – 5839 – 000		1	SEAL 1 シール (1)	
1B	FB1 – 5840 – 000		1	SEAL 2 シール (2)	
1C	FA5 – 2606 – 000		2	SEAL, 1 シール (1)	
2	FF5 – 0925 – 000		1	LID, DEVELOPING ASSEMBLY ゲンゾウキ フタ	
2A	FB1 – 5841 – 000		2	SEAL 1 シール (1)	
2B	FB1 – 5845 – 000		1	SEAL 2 シール (2)	
2C	FB1 – 5846 – 000		2	SEAL 3 シール (3)	
3	FF5 – 0926 – 000		1	SUPPORT, SCREW スクリュ シダイ	
3A	FB1 – 5829 – 000		1	SEAL シール	
4	FF5 – 0927 – 000		1	SUPPORT, STIRRING 2 カクハン シダイ (2)	
4A	FB1 – 5842 – 000		1	SEAL シール	
5	FF5 – 0929 – 000		1	GRIP テカケ	
5A	FB1 – 5843 – 000		1	SEAL 1 シール (1)	
5B	FB1 – 5844 – 000		2	SEAL 2 シール (2)	
6	FF5 – 0930 – 000		1	SUPPORT, STIRRING 1 カクハン シダイ (1)	
6A	FB1 – 5847 – 000		1	SEAL シール	
7	FA3 – 8589 – 000		1	SPRING, TENSION ネジリ バネ	
8	FB1 – 6051 – 000		2	SHEET マイラ シート	
9	FA5 – 2594 – 000		1	ROLLER マグネツト ローラ	
10	FA5 – 2598 – 000		1	PLATE イタ ステー	
11	FA5 – 2602 – 000		1	PLATE, POSITIONING キヨクギメ バン	
12	FA5 – 2610 – 000		1	SPRING, LEAF イタ バネ	
13	FA5 – 2614 – 000		10	ROLLER, STIRRING カクハン バネ	
14	FA9 – 1935 – 000		1	SPACER スペーサ	
15	FB1 – 5824 – 000		1	FEEDSCREW, TONER ハンソウ スクリュ	
16	FB1 – 5827 – 000		1	PLATE, TERMINAL デンキヨク バン	
17	FB1 – 5831 – 000		1	PLATE スクリュ ソクバン	
18	FB1 – 5834 – 000		1	ROD, STIRRING カクハン ボウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
640 – 19	FB1 – 5837 – 000		2	PLATE, SEAL ジセイ シールバン	
20	XB1 – 2300 – 402		11	SCREW,MACH.,TRUSS HEAD,M3X4 バインド ネジ	
21	FB1 – 6050 – 000		1	PLATE モチ アゲ イタ	
22	FF5 – 0928 – 000		1	PLATE, GEAR HOLDER ギア シジ イタ	
23	FF5 – 0990 – 000		1	ROD, STIRRING 2 カクハン ジク	
24	FH7 – 7242 – 000		1	SENSOR, TONER トナー センサ	
25	FS2 – 1014 – 000		1	BUSHING ブッシング	
26	FS2 – 6018 – 000		2	WASHER ワッシャ	
27	FS2 – 6019 – 000		2	ROLLER コロ	
28	FS3 – 0041 – 000		1	GEAR, 19T 19T ギア	
29	FS3 – 0042 – 000		1	GEAR, 21T 21T ギア	
30	FS3 – 0043 – 000		1	GEAR, 43/21T 43/21T ギア	
31	FS5 – 0280 – 000		1	GEAR, 30T 30T ギア	
32	FS5 – 0281 – 000		1	GEAR, 35T 35T ギア	
33	FS5 – 0282 – 000		1	GEAR, 26T 26T ギア	
34	FS5 – 0283 – 000		1	GEAR, 25T/15T 25T/15T ギア	
35	FS5 – 0284 – 000		1	GEAR, 31T/16T 31T/16T ギア	
36	FS5 – 0297 – 000		1	GEAR, 20T 20T ギア	
37	FS5 – 1184 – 000		1	BUSING ブッシング	
38	X71 – 9310 – 000		1	SEAL, OIL オイル シール	
39	XG9 – 0111 – 000		2	SEAL, OIL オイル シール	
40	XG9 – 0205 – 000		2	BEARING, BALL ボール ベアリング	
41	XG9 – 0211 – 000		1	BEARING ベアリング	
42	XG9 – 0212 – 000		1	BEARING, BALL ボール ベアリング	
43	XD9 – 0104 – 000		1	PIN, DOWEL ヘイコウ ピン	
44	FB1 – 5838 – 000		1	BLADE ブレード	
45	FA5 – 1762 – 000		1	BOSS ボス	

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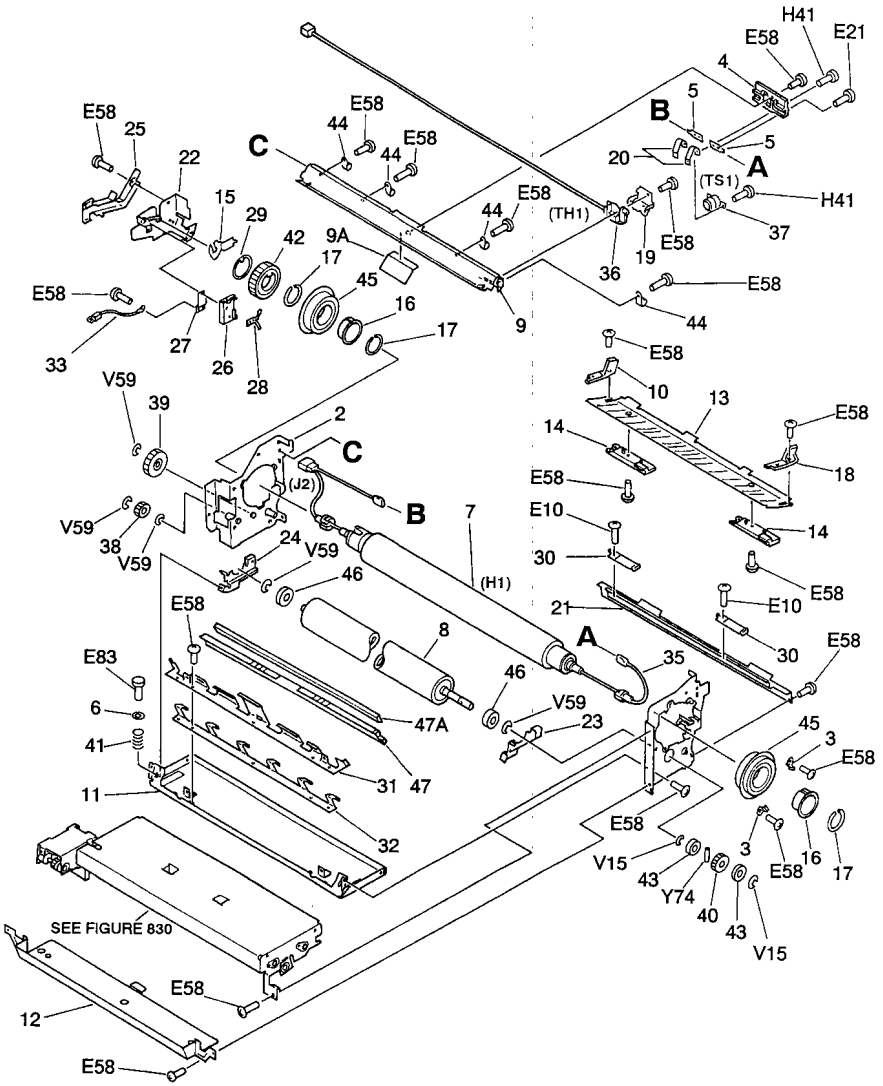
FIGURE 810 FIXING ASSEMBLY
定着器



NOTE : In the felt (FA5-3015-000) is to be replaced on its own, make sure the new felt is impregnated with silicone oil.

注 ： フェルト（FA5-3015-000）のみを交換する場合は、シリコンオイルの含浸が必要です。

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
810 –	FG5 – 1211 – 000		1	FIXING ASSEMBLY テイチヤクキ	100V
	FG5 – 1212 – 000		1	FIXING ASSEMBLY テイチヤクキ	115V
	FG5 – 1213 – 000		1	FIXING ASSEMBLY テイチヤクキ	220/240V
1	FF5 – 0955 – 000	N	1	PLATE, FRONT マエ ソクバン	
2	FF5 – 0956 – 000	N	1	PLATE, REAR ウシロ ソクバン	
3	FA5 – 3008 – 000		2	STOPPER ストツパ	
4	FA2 – 8348 – 000		1	MOUNT, THERMOSWITCH サーモスイツチ ダイ	
5	FA2 – 8366 – 000		2	TERMINAL, THERMOSWITCH サーモスイツチ タンシ	
6	FA2 – 9078 – 000		2	RING, C EXTERNAL C リング	
7	FA5 – 2956 – 030		1	FIXING ROLLER, UPPER ウエ ローラ	
8	FB1 – 5921 – 000		1	FIXING ROLLER, LOWER シタ ローラ	
9	FF5 – 0947 – 000		1	PLATE, UPPER ウエ ステー	
9A	FB1 – 5947 – 000		1	SHEET, INSULATION ゼツエン シート	
10	FA5 – 3014 – 000		1	HANDLE, REAR トツテ (ウシロ)	
11	FB1 – 5925 – 000		1	PLATE, BASE ソコ イタ	
12	FB1 – 5943 – 000		1	PLATE, DUST シフン ウケ	
13	FB1 – 5927 – 000		1	GUIDE イリグチ ガイド	
14	FA5 – 2965 – 000		2	SUPPORT, GUIDE ガイド ホジヨ イタ	
15	FB1 – 5932 – 000		1	SPRING, LEAF イタ バネ	
16	FB1 – 5928 – 000		2	BUSHING ブツシング	
17	FA5 – 2969 – 000		2	RING トメワ	
18	FA5 – 2977 – 000		1	HANDLE, FRONT トツテ (マエ)	
19	FA5 – 2978 – 000		1	HOLDER, THERMISTOR サーミスタ ホルダ	
20	FA5 – 2979 – 000		2	SPRING, LEAF, THERMOSWITCH サーモスイツチ バネ	
21	FB1 – 5926 – 000		1	PLATE, HEIGHT ADJUSTING タカサ チヨウセイ バン	
22	FB1 – 5929 – 000		1	HOLDER, HEATER ヒータ ホルダ	
23	FB1 – 5930 – 000		1	ARM, ROLLER LIFTING, FRONT カアツ アーム (マエ)	
24	FB1 – 5931 – 000		1	ARM, ROLLER LIFTING, REAR カアツ アーム (ウシロ)	
25	FB1 – 5933 – 000		1	COVER, CORD コード カバー	
26	FB1 – 5934 – 000		1	MOUNT, ELECTRODE デンキヨク シバン	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
810 – 27	FB1 – 5935 – 000		1	HOLDER, ELECTRODE デンキヨク オサエイタ	
28	FB1 – 5936 – 000		1	SPRING, LEAF デンキヨク バネ	
29	FB1 – 5938 – 000		1	RING シユウドウ リング	
30	FB1 – 5939 – 000		2	SPRING, LEAF イタ バネ	
31	FB1 – 5940 – 000		1	MOUNT, FIXING ROLLER CLEANING クリーナ ダイ	
32	FB1 – 5941 – 000		1	PLATE クリーナ カアツ バネ	
33	FF2 – 4537 – 000		1	CABLE, BIAS バイアス ケーブル	
35	FH7 – 4255 – 000		1	HEATER,TUNG. – HALOGEN 100V 800W ハロゲン ヒータ	100V
	FH7 – 4256 – 000		1	HEATER,TUNG. – HALOGEN 115V 800W ハロゲン ヒータ	115V
	FH7 – 4297 – 000		1	HEATER,TUNG. – HALOGEN 220V 880W ハロゲン ヒータ	220/240V
36	FH7 – 7156 – 000		1	THERMISTOR サーミスタ	
37	FH7 – 7267 – 000		1	THERMOSWITCH サーモスイツチ	
38	FS1 – 0219 – 000		1	GEAR, 21T 21T ギア	
39	FS1 – 0815 – 000		1	GEAR, 30T 30T ギア	
40	FS3 – 0026 – 000		1	GEAR, 24T 24T ギア	
41	FS3 – 2068 – 000		2	SPRING, COMPRESSION アツシユク バネ	
42	FS5 – 0304 – 000		1	GEAR, 44T 44T ギア	
43	FS5 – 6151 – 000		2	ROLLER, A ツキアテ コロ (A)	
44	WT2 – 5063 – 000		4	CLAMP クランプ	
45	XG9 – 0181 – 000		2	BEARING, BALL ベアリング	
46	XG9 – 0208 – 000		2	BEARING, BALL ボール ベアリング	
47	FF2 – 0175 – 020		1	CLEANER, FIXING ROLLER テイチヤク クリーナ	
47A	FA5 – 3015 – 000		1	CLEANER, FELT テイチヤク クリーナ	

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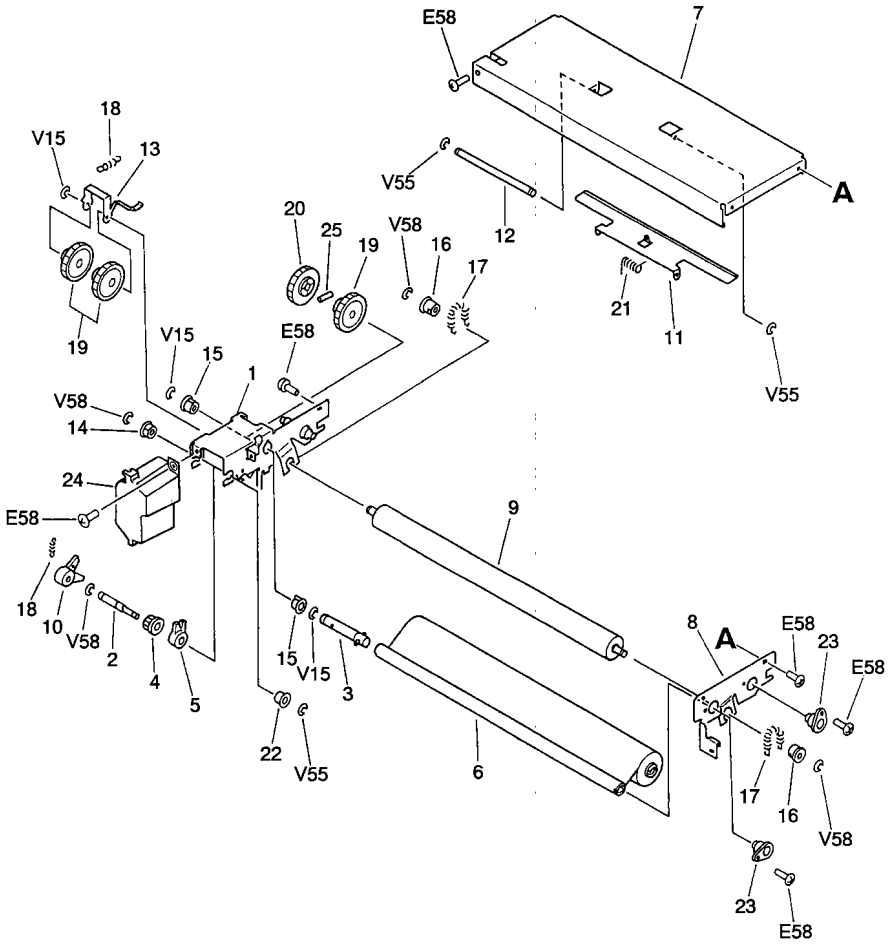
FIGURE 830 FIXING ROLLER CLEANING ASSEMBLY
定着クリーナ部



NOTE : This assembly does not include the part shown with key No. 24.

注 : このユニットに Key No. 24 の部品は含まれません。

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
830 –	FG5 – 1273 – 000		1	FIXING ROLLER CLEANING ASS'Y テイチヤク クリーナ ブ	NEXT FIGURE 810
1	FF5 – 0985 – 000	N	1	PLATE, REAR ウシロ ソクバン	
2	FA5 – 2986 – 000		1	SHAFT, INPUT ニユウリヨク ジク	
3	FF2 – 0163 – 000		1	SHAFT, OUTPUT シツリヨク ジク	
4	FS3 – 0083 – 000		1	GEAR, 12T 12T ギア	
5	FA5 – 3012 – 020		1	ARM,ONE – WAY,B ワンウエイ アーム (B)	
6	FA3 – 8908 – 000		1	CLEANING BELT, FIXING ROLLER ウエブ	
7	FB1 – 6045 – 000		1	COVER, CLEANING BELT ウエブ カバー	
8	FB1 – 6046 – 000	N	1	PLATE, FRONT マエ ソクバン	
9	FA5 – 2983 – 000		1	ROLLER, PRESSURE,CLEANING BELT ウエブ ローラ	
10	FA5 – 2984 – 000		1	ARM, ONE – WAY ワンウエイ アーム	
11	FA5 – 2987 – 000		1	PLATE, TENSION モドリ ボウシ バン	
12	FA5 – 2988 – 000		1	ROD, PLATE MOUNTING モドリ ボウシ ジク	
13	FB1 – 6048 – 000		1	ARM, LIMIT テイリヨウ オクリ アーム	
14	FS1 – 1401 – 000		1	BUSHING ブツシング	
15	FS1 – 1449 – 000		2	BUSHING ブツシング	
16	FS1 – 1457 – 000		2	BUSHING ブッシング	
17	FS2 – 2325 – 000		2	SPRING, TENSION ヒツパリ バネ	
18	FS2 – 2345 – 000		2	SPRING, TENSION ヒツパリ バネ	
19	FS3 – 0081 – 000		3	GEAR, 15/35T 15/35T ギア	
20	FS3 – 0082 – 000		1	GEAR, 35T 35T ギア	
21	FS3 – 2053 – 000		1	SPRING, TORSION ネジリ バネ	
22	FS5 – 1005 – 000		1	BUSHING ジクウケ	
23	FA3 – 8902 – 000		2	BUSHING ウエブ カイテン ジク (マエ)	
24	FB1 – 6113 – 000		1	COVER, CONNECTOR コネクタ カバー	SEE NOTE
25	XD9 – 0104 – 000		1	PIN, DOWEL ヘイコウ ピン	

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FIGURE 910 DC POWER SUPPLY PCB ASSEMBLY(1/3)
DC電源基板 (1/3)

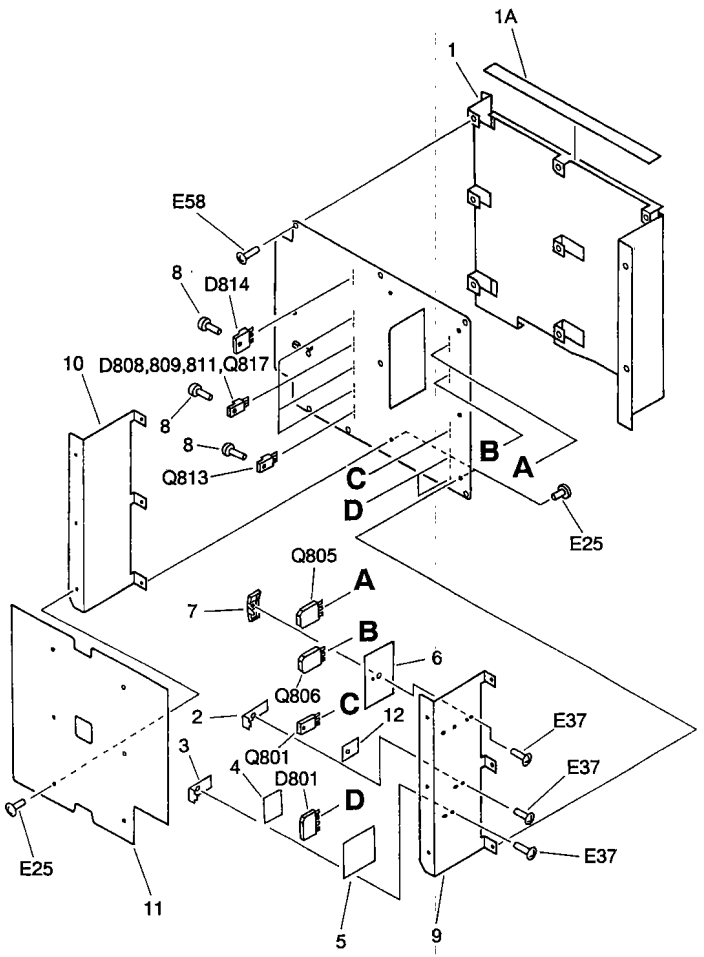

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FIGURE 910 DC POWER SUPPLY PCB ASSEMBLY(2/3)
DC電源基板 (2/3)

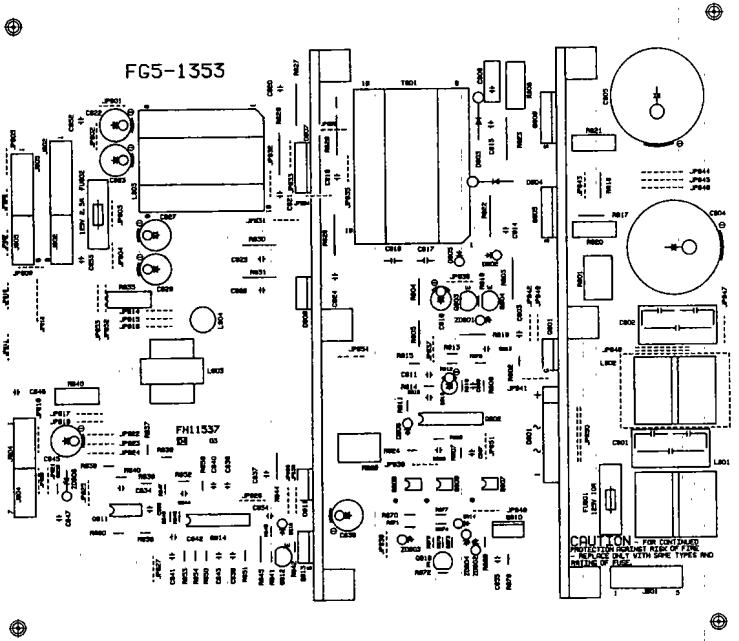

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FIGURE 910 DC POWER SUPPLY PCB ASSEMBLY(3/3)
DC電源基板 (3/3)

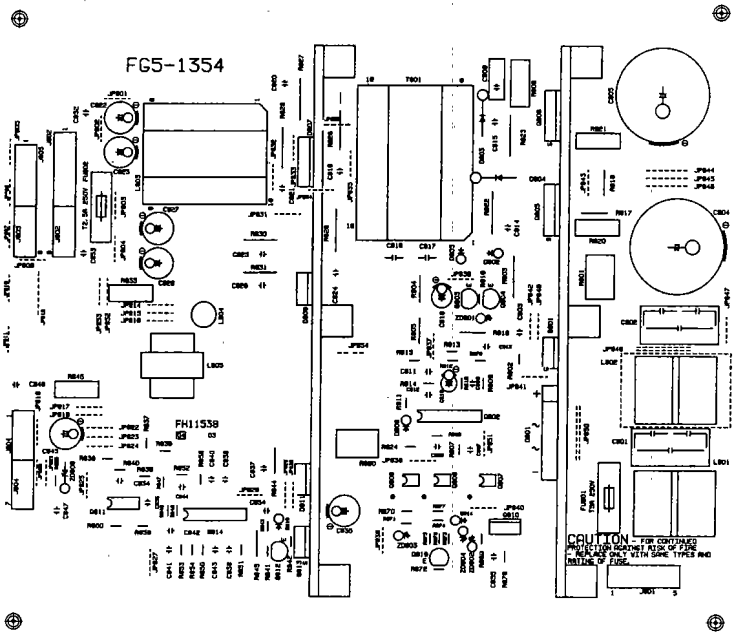

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 –	FG5 – 1353 – 000		1	DC POWER SUPPLY PCB ASSEMBLY DC デンゲン キバン	100/115V
	FG5 – 1354 – 000		1	DC POWER SUPPLY PCB ASSEMBLY DC デンゲン キバン	220/240V
1	FF5 – 1029 – 000		1	MOUNT, PCB PCB トリツケ バン	
1A	FB1 – 6133 – 000		1	SHEET ビス ラツカ ボウシ シート	
2	FA5 – 2489 – 000		1	PLATE オサエ イタ	
3	FA6 – 5515 – 000		1	PLATE, B オサエ カナグ (B)	
4	FA9 – 2577 – 000		1	SHEET シート	
5	WA9 – 5085 – 000		1	SHEET, INSULATION, B ゼツエン シート (B)	
6	WA9 – 5086 – 000		1	SHEET, INSULATION, C ゼツエン シート (C)	
7	WA9 – 5087 – 000		1	PLATE オサエ カナグ	
8	XB1 – 6300 – 805		4	SCREW,MACH.,PAN HEAD,M3X8 ナベ ネジ	
9	FB1 – 5967 – 000		1	HEATSINK 1 ホウネツ バン (1)	
10	FB1 – 5968 – 000		1	HEATSINK 2 ホウネツ バン (2)	
11	FB1 – 5969 – 000		1	HEATSINK, SUB ホジョ ホウネツ バン	
12	WA9 – 5084 – 000		1	SHEET, INSULATION, A ゼツエン シート (A)	
C801	VC6 – 2560 – 102		1	CAPACITOR, 1000PF, 250V コンデンサ	
C802	VC6 – 2560 – 222		1	CAPACITOR, 2200PF, 250V コンデンサ	
C803	VC7 – 5130 – 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C804	VC7 – 3920 – 827		1	CAPACITOR, 820UF 250V コンデンサ	100/115V
	VC7 – 3930 – 227		1	CAPACITOR, 220UF 450V コンデンサ	220/240V
C805	VC7 – 3920 – 827		1	CAPACITOR, 820UF 250V コンデンサ	100/115V
	VC7 – 3930 – 227		1	CAPACITOR, 220UF 450V コンデンサ	220/240V
C806	VC6 – 3810 – 223		1	CAPACITOR, 0.022UF, 630V コンデンサ	220/240V
	VC6 – 3820 – 473		1	CAPACITOR, 0.047UF, 400V コンデンサ	100/115V
C807	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C808	VC7 – 5130 – 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C809	VC7 – 1410 – 391		1	CAPACITOR, 390PF 100V コンデンサ	
C810	VC5 – 7560 – 475		1	CAPACITOR, 4.7UF, 50V コンデンサ	
C811	VC7 – 1410 – 103		1	CAPACITOR, 0.01UF 100V コンデンサ	
C812	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 – C813	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C814	VC6 – 0150 – 220		1	CAPACITOR, 22PF 1KV コンデンサ	220/240V
	VC6 – 0150 – 470		1	CAPACITOR, 47PF, 1KV コンデンサ	100/115V
C815	VC6 – 0150 – 220		1	CAPACITOR, 22PF 1KV コンデンサ	220/240V
	VC6 – 0150 – 470		1	CAPACITOR, 47PF, 1KV コンデンサ	100/115V
C816	VC7 – 3980 – 186		1	CAPACITOR, 18UF, 63V コンデンサ	
C817	VC5 – 8110 – 471		1	CAPACITOR, 470PF, 400V コンデンサ	
C818	VC5 – 8110 – 471		1	CAPACITOR, 470PF, 400V コンデンサ	
C819	VC6 – 0160 – 471		1	CAPACITOR, 470PF 50V コンデンサ	
C820	VC7 – 2090 – 102		1	CAPACITOR, 1000PF, 250V コンデンサ	
C821	VC7 – 2090 – 102		1	CAPACITOR, 1000PF, 250V コンデンサ	
C822	VC7 – 3960 – 567		1	CAPACITOR, 560UF 35V コンデンサ	
C823	VC7 – 3960 – 567		1	CAPACITOR, 560UF 35V コンデンサ	
C824	VC6 – 0160 – 471		1	CAPACITOR, 470PF 50V コンデンサ	
C825	VC7 – 2090 – 102		1	CAPACITOR, 1000PF, 250V コンデンサ	
C826	VC7 – 2090 – 102		1	CAPACITOR, 1000PF, 250V コンデンサ	
C827	VC7 – 3960 – 567		1	CAPACITOR, 560UF 35V コンデンサ	
C828	VC7 – 3960 – 567		1	CAPACITOR, 560UF 35V コンデンサ	
C834	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C835	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C836	VC7 – 3960 – 567		1	CAPACITOR, 560UF 35V コンデンサ	
C837	VC7 – 1410 – 221		1	CAPACITOR, 220PF, 100V コンデンサ	
C838	VC7 – 1410 – 472		1	CAPACITOR, 4700PF, 100V コンデンサ	
C839	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C840	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C841	VC6 – 1720 – 222		1	CAPACITOR, 220PF, 50V コンデンサ	
C842	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C843	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C844	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C845	VC7 – 3960 – 567		1	CAPACITOR, 560UF 35V コンデンサ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 – C846	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C847	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C852	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C853	VC7 – 5130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C854	VC7 – 1410 – 681		1	CAPACITOR, 680PF, 100V コンデンサ	
C855	VC7 – 5130 – 474		1	CAPACITOR, 0.47UF, 50V コンデンサ	
D801	WA1 – 5245 – 000		1	DIODE, ARRAY, RBV – 1506 ダイオード アレイ	
D802	WA1 – 1123 – 000		1	DIODE, AG01Z ダイオード	
D803	WA1 – 1040 – 000		1	DIODE, RG – 1C ダイオード	220/240V
	WA1 – 1100 – 000		1	DIODE, RG2A ダイオード	100/115V
D804	WA1 – 1040 – 000		1	DIODE, RG – 1C ダイオード	220/240V
	WA1 – 1100 – 000		1	DIODE, RG2A ダイオード	100/115V
D805	WA1 – 1123 – 000		1	DIODE, AG01Z ダイオード	
D806	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D807	WA1 – 5216 – 000		1	DIODE, FMX – 32S ダイオード	
D808	WA1 – 5312 – 000		1	DIODE, FMB – 29L ダイオード	
D810	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D811	WA1 – 5244 – 000		1	DIODE, FMB – G24H ダイオード	
D814	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
FH801	WD9 – 0045 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FH802	WD9 – 0045 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FH803	WD9 – 5003 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FH804	WD9 – 5004 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU801	VD5 – 0245 – 001		1	FUSE, 250V 5A ヒューズ	220/240V
	WD1 – 0288 – 000		1	FUSE, 10A ヒューズ	100/115V
FU802	VD5 – 0242 – 501		1	FUSE, 250V, 2.5A ヒューズ	220/240V
	VD7 – 0212 – 501		1	FUSE, 2.5A, 250V ヒューズ	100/115V
J801	VS1 – 0025 – 005		1	PIN ASSEMBLY, 5P (W) ピン アセンブリ	
J802	VS1 – 0269 – 005		1	PIN ASSEMBLY, 5P ピンアセンブリ	
J804	VS1 – 5414 – 003		1	PIN ASSEMBLY, 3P ピン アセンブリ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 – J805	VS1 – 0025 – 004		1	PIN ASSEMBLY, 4P (W) ピン アセンブリ	
J802	VS1 – 0088 – 004		1	PIN ASSEMBLY, 4P ピン アセンブリ	
J804	VS1 – 0088 – 004		1	PIN ASSEMBLY, 4P ピン アセンブリ	
J805	VS1 – 0088 – 004		1	PIN ASSEMBLY, 4P ピン アセンブリ	
L801	WE2 – 5041 – 000		1	INDUCTOR, SC – 10 – D050J インダクタ	
L802	VL5 – 0390 – 086		1	FILTER, NOISE ノイズ フィルタ	220/240V
	WE2 – 0407 – 000		1	FILTER, NOISE ノイズ フィルタ	100/115V
L803	FH3 – 0621 – 000		1	TRANSFORMER トランス	
L804	VL7 – 0310 – 103		1	INDUCTOR, SBC4 – 100 – 292 インダクタ	
L805	VL7 – 0220 – 104		1	INDUCTOR, EY2 – 3 インダクタ	
Q801	WA5 – 5019 – 000		1	THYRISTOR, TF861 サイリスタ	
Q802	WA4 – 5240 – 000		1	REGULATOR, 36V 0.15V レギュレータ	
Q803	WA2 – 0237 – 000		1	TRANSISTOR, 2SC2655Y トランジスタ	
Q804	WA2 – 0236 – 000		1	TRANSISTOR, 2SA1020Y トランジスタ	
Q805	WA2 – 5302 – 000		1	FET, 2SK1411 トランジスタ	100/115V
	WA2 – 5303 – 000		1	FET, 2SK1358 トランジスタ	220/240V
Q806	WA2 – 5302 – 000		1	FET, 2SK1411 トランジスタ	100/115V
	WA2 – 5303 – 000		1	FET, 2SK1358 トランジスタ	220/240V
Q807	WG8 – 0286 – 000		1	PHOTO – COUPLER, TLP621 フオト カプラ	100/115V
	WG8 – 5155 – 000		1	PHOTO – COUPLER, TLP634 フォト カプラ	220/240V
Q808	WG8 – 0286 – 000		1	PHOTO – COUPLER, TLP621 フオト カプラ	100/115V
	WG8 – 5155 – 000		1	PHOTO – COUPLER, TLP634 フォト カプラ	220/240V
Q809	WG8 – 0286 – 000		1	PHOTO – COUPLER, TLP621 フオト カプラ	100/115V
	WG8 – 5155 – 000		1	PHOTO – COUPLER, TLP634 フォト カプラ	220/240V
Q810	WA4 – 5114 – 000		1	IC, SE024N IC	
Q811	WA4 – 0813 – 000		1	IC, HA17358 IC	
Q812	WA2 – 0237 – 000		1	TRANSISTOR, 2SC2655Y トランジスタ	
Q813	WA2 – 5342 – 000		1	MOS – FET, 2SJ175 MOS – FET	
Q814	WA4 – 1071 – 000		1	IC, UPC494C IC	
Q819	WA2 – 0168 – 000		1	TRANSISTOR, 2SA673 トランジスタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 – R801	VR7 – 2000 – 100		1	RESISTOR, 10 OHM, 7W テイコウ	100/115V
	VR7 – 2720 – 150		1	RESISTOR, 15.3 OHM, 3W テイコウ	220/240V
R802	VR5 – 5510 – 102		1	RESISTOR, 1KOHM 1/4W テイコウ	
R803	VR5 – 2410 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R804	VR5 – 1010 – 104		1	RESISTOR, 100KOHM, 1/2W テイコウ	220/240V
	VR7 – 0560 – 473		1	RESISTOR, 47KOHM, 1/2W テイコウ	100/115V
R805	VR5 – 1010 – 104		1	RESISTOR, 100KOHM, 1/2W テイコウ	220/240V
	VR7 – 0560 – 473		1	RESISTOR, 47KOHM, 1/2W テイコウ	100/115V
R806	VR5 – 8280 – 104		1	RESISTOR, 100KOHM, 5W テイコウ	220/240V
	VR5 – 8280 – 683		1	RESISTOR, 68KOHM, 5W テイコウ	100/115V
R807	VR5 – 5510 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R808	VR5 – 5510 – 153		1	RESISTOR, 15KOHM 1/4W テイコウ	
R809	VR5 – 6372 – 202		1	RESISTOR, 2KOHM 1/4W テイコウ	
R810	VR5 – 6372 – 202		1	RESISTOR, 2KOHM 1/4W テイコウ	
R811	VR5 – 5510 – 102		1	RESISTOR, 1KOHM 1/4W テイコウ	
R812	VR5 – 6373 – 600		1	RESISTOR, 360 OHM, 1/4W テイコウ	100/115V
	VR5 – 6374 – 300		1	RESISTOR, 430 OHM, 1/4W テイコウ	220/240V
R813	VR5 – 6373 – 600		1	RESISTOR, 360 OHM, 1/4W テイコウ	100/115V
	VR5 – 6374 – 300		1	RESISTOR, 430 OHM, 1/4W テイコウ	220/240V
R814	VR5 – 6375 – 109		1	RESISTOR, 51 OHM 1/4W テイコウ	
R815	VR5 – 5510 – 223		1	RESISTOR, 22KOHM, 1/4W テイコウ	
R816	VR7 – 0560 – 390		1	RESISTOR, 39 OHM 1/2W テイコウ	
R817	VR5 – 6870 – 220		1	RESISTOR, 22 OHM, 1/4W テイコウ	
R818	VR5 – 6870 – 220		1	RESISTOR, 22 OHM, 1/4W テイコウ	
R819	VR5 – 5510 – 104		1	RESISTOR, 100KOHM 1/4W テイコウ	
R820	VR5 – 8280 – 683		1	RESISTOR, 68KOHM, 5W テイコウ	100/115V
	VR9 – 5102 – 000		1	RESISTOR, 0.33 OHM 5W テイコウ	220/240V
R821	VR9 – 5099 – 000		1	RESISTOR, 0.15 OHM 5W テイコウ	100/115V
	VR9 – 5102 – 000		1	RESISTOR, 0.33 OHM 5W テイコウ	220/240V
R822	VR5 – 6020 – 221		1	RESISTOR, 220 OHM 2W テイコウ	100/115V

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 – R822	VR5 – 6020 – 471		1	RESISTOR, 470 OHM 2W テイコウ	220/240V
R823	VR5 – 6020 – 221		1	RESISTOR, 220 OHM 2W テイコウ	100/115V
	VR5 – 6020 – 471		1	RESISTOR, 470 OHM 2W テイコウ	220/240V
R824	VR5 – 5510 – 153		1	RESISTOR, 15KOHM 1/4W テイコウ	
R826	VR5 – 6030 – 330		1	RESISTOR, 33 OHM 3W テイコウ	
R827	VR5 – 6020 – 180		1	RESISTOR, 18 OHM, 2W テイコウ	
R828	VR5 – 6020 – 180		1	RESISTOR, 18 OHM, 2W テイコウ	
R829	VR5 – 6020 – 680		1	RESISTOR, 68 OHM 2W テイコウ	
R830	VR5 – 6630 – 680		1	RESISTOR, 68 OHM 1W テイコウ	
R831	VR5 – 6630 – 680		1	RESISTOR, 68 OHM 1W テイコウ	
R835	VR9 – 3649 – 000		1	RESISTOR, 0.03 OHM, 2W テイコウ	
R836	VR5 – 6377 – 500		1	RESISTOR, 750 OHM, 1/4W テイコウ	
R837	VR5 – 6377 – 500		1	RESISTOR, 750 OHM, 1/4W テイコウ	
R838	VR5 – 6373 – 302		1	RESISTOR, 33KOHM, 1/4W テイコウ	
R839	VR5 – 6373 – 302		1	RESISTOR, 33KOHM, 1/4W テイコウ	
R840	VR5 – 5510 – 105		1	RESISTOR, 1MOHM 1/4W テイコウ	
R841	VR5 – 5510 – 162		1	RESISTOR, 1.6KOHM 1/4W テイコウ	
R842	VR5 – 5510 – 361		1	RESISTOR, 360 OHM 1/4W テイコウ	
R843	VR5 – 5510 – 562		1	RESISTOR, 5.6KOHM 1/4W テイコウ	
R844	VR5 – 1010 – 100		1	RESISTOR, 10 OHM, 1/2W テイコウ	
R845	VR7 – 0560 – 181		1	RESISTOR, 180 OHM 1/2W テイコウ	
R846	VR9 – 3649 – 000		1	RESISTOR, 0.03 OHM, 2W テイコウ	
R847	VR5 – 6371 – 021		1	RESISTOR, 1.02KOHM, 1/4W テイコウ	
R848	VR5 – 6371 – 001		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R849	VR5 – 6378 – 452		1	RESISTOR, 84.5KOHM, 1/4W テイコウ	
R850	VR5 – 6373 – 092		1	RESISTOR, 30.9KOHM, 1/4W テイコウ	
R851	VR5 – 6372 – 701		1	RESISTOR, 2.7KOHM 1/4W テイコウ	
R852	VR5 – 5510 – 102		1	RESISTOR, 1KOHM 1/4W テイコウ	
R853	VR5 – 5510 – 105		1	RESISTOR, 1MOHM 1/4W テイコウ	
R854	VR5 – 5510 – 153		1	RESISTOR, 15KOHM 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 – R855	VR5 – 5510 – 301		1	RESISTOR, 300 OHM 1/4W テイコウ	
R856	VR5 – 5510 – 102		1	RESISTOR, 1KOHM 1/4W テイコウ	
R859	VR5 – 5510 – 182		1	RESISTOR, 1.8KOHM, 1/4W テイコウ	220/240V
	VR5 – 6373 – 302		1	RESISTOR, 33KOHM, 1/4W テイコウ	100/115V
R860	VR5 – 5510 – 105		1	RESISTOR, 1MOHM 1/4W テイコウ	
R869	VR5 – 6373 – 001		1	RESISTOR, 3KOHM 1/4W テイコウ	
R870	VR5 – 5510 – 102		1	RESISTOR, 1KOHM 1/4W テイコウ	
R871	VR5 – 5510 – 102		1	RESISTOR, 1KOHM 1/4W テイコウ	
R872	VR5 – 5510 – 122		1	RESISTOR, 1.2KOHM, 1/4W テイコウ	
R873	VR5 – 5510 – 331		1	RESISTOR, 330 OHM 1/4W テイコウ	
R874	VR5 – 5510 – 470		1	RESISTOR, 47 OHM 1/4W テイコウ	
R875	VR5 – 5510 – 470		1	RESISTOR, 47 OHM 1/4W テイコウ	
R876	VR5 – 5510 – 470		1	RESISTOR, 47 OHM 1/4W テイコウ	
R877	VR5 – 5510 – 562		1	RESISTOR, 5.6KOHM 1/4W テイコウ	
R878	VR5 – 5510 – 471		1	RESISTOR, 470 OHM, 1/4W テイコウ	
R879	VR5 – 6371 – 000		1	RESISTOR, 100 OHM 1/4W テイコウ	
R880	VR7 – 0570 – 101		1	RESISTOR, 100 OHM, 5W テイコウ	
T801	FH3 – 0619 – 000		1	TRANSFORMER トランス	100/115V
	FH3 – 0620 – 000		1	TRANSFORMER トランス	220/240V
ZD801	WA1 – 1063 – 000		1	DIODE, ZENER, HZS27 – 2 ツェナー ダイオード	
ZD802	WA1 – 1063 – 000		1	DIODE, ZENER, HZS27 – 2 ツェナー ダイオード	
ZD803	WA1 – 1001 – 000		1	DIODE, ZENER, HZS15 – 2 ツエナー ダイオード	
ZD804	WA1 – 1181 – 000		1	DIODE, ZENER, HZS5.6EB3 ツェナー ダイオード	
ZD806	WA1 – 0576 – 000		1	DIODE, ZENER, HZ6 ツェナー ダイオード	

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FIGURE 911 FUSE CIRCUIT PCB ASSEMBLY
ヒューズ回路基板

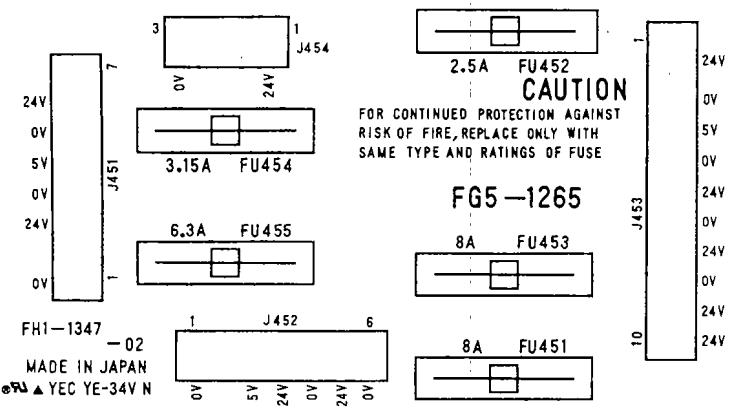

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
911 –	FG5 – 1265 – 000		1	FUSE PCB ASSEMBLY ヒューズ カイロキバン	
FU451	VD5 – 0068 – 001		1	FUSE, 125V, 8A ヒューズ	
FU451L	WD9 – 5003 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU451R	WD9 – 5004 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU452	VD5 – 0062 – 501		1	FUSE, 125V, 2.5A ヒューズ	
FU452L	WD9 – 5003 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU452R	WD9 – 5004 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU453	VD5 – 0068 – 001		1	FUSE, 125V, 8A ヒューズ	
FU453L	WD9 – 5003 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU453R	WD9 – 5004 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU454	VD5 – 0063 – 151		1	FUSE, 125V, 3.15A ヒューズ	
FU454L	WD9 – 5003 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU454R	WD9 – 5004 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU455	VD5 – 0066 – 301		1	FUSE, 125V, 6.5A ヒューズ	
FU455L	WD9 – 5003 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
FU455R	WD9 – 5004 – 000		1	HOLDER, FUSE ヒューズ ホルダ	
J451A	VS1 – 0025 – 003		1	PIN ASSEMBLY, 3P ピン アセンブリ	
J451B	VS1 – 0088 – 004		1	PIN ASSEMBLY, 4P ピン アセンブリ	
J452	VS1 – 0025 – 006		1	PIN ASSEMBLY, 6P (W) ピン アセンブリ	
J453A	VS1 – 0025 – 005		1	PIN ASSEMBLY, 5P (W) ピン アセンブリ	
J453B	VS1 – 0088 – 005		1	PIN ASSEMBLY, 5P ピン アセンブリ	
J454	VS1 – 0026 – 003		1	PIN ASSEMBLY, 3P ピン アセンブリ	

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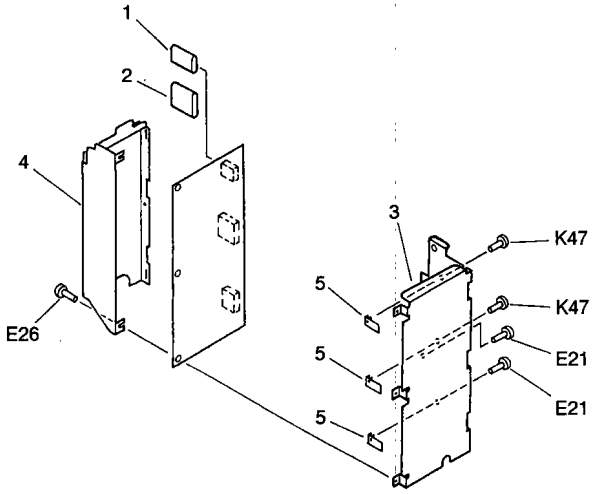
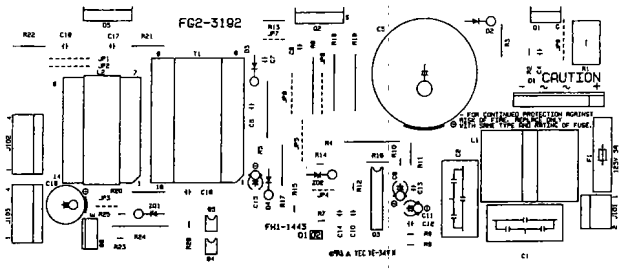
FIGURE 914 DC POWER SUPPLY PCB ASSEMBLY (DF/SORTER)
DC電源基板（DF／ソータ）





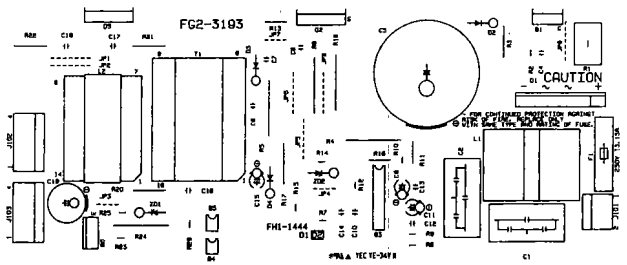


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
914 –	FG5 – 1266 – 000		1	DC POWER SUPPLY PCB ASSEMBLY DC デンゲン キバン	DF/SORTER 100/115V
	FG5 – 1267 – 000		1	DC POWER SUPPLY PCB ASSEMBLY DC デンゲン キバン	DF/SORTER 220/240V
1	FH7 – 8556 – 000		1	SHEET, INSULATION ゼツエン シート	
2	RH7 – 8035 – 000		1	SHEET, INSULATION ゼツエン シート	
3	FB1 – 6165 – 000		1	MOUNT, DC POWER SUPPLY APC デンゲン トリツケバン	
4	FB1 – 6166 – 000		1	PLATE, SHIELD シールド バン	
5	FE9 – 0148 – 000		3	PLATE オサエ イタ	
C 1	VC6 – 2560 – 102		1	CAPACITOR, 1000PF, 250V コンデンサ	
C 2	VC6 – 2560 – 222		1	CAPACITOR, 2200PF, 250V コンデンサ	
C 4	VC3 – 2501 – 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C 5	VC7 – 3470 – 128		1	CAPACITOR, 1200UF, 250V コンデンサ	100/115V
	VC7 – 3480 – 397		1	CAPACITOR, 390UF,450V コンデンサ	220/240V
C 6	VC6 – 0160 – 222		1	CAPACITOR, 2200PF, 500V コンデンサ	220/240V
	VC7 – 2090 – 472		1	CAPACITOR, 4700PF, 250V コンデンサ	100/115V
C 7	VC6 – 0150 – 101		1	CAPACITOR, 100PF, 1KV コンデンサ	
C 8	VC6 – 0150 – 101		1	CAPACITOR, 100PF, 1KV コンデンサ	220/240V
	VC6 – 0150 – 221		1	CAPACITOR, 220PF, 1KV コンデンサ	100/115V
C 9	VC5 – 4400 – 475		1	CAPACITOR, 50V, 4.7UF コンデンサ	
C 10	VC6 – 1130 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C 11	VC5 – 4400 – 475		1	CAPACITOR, 50V, 4.7UF コンデンサ	
C 12	VC4 – 2502 – 391		1	CAPACITOR, 390PF, 50V コンデンサ	
C 13	VC3 – 2501 – 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C 14	VC3 – 2501 – 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C 15	VC7 – 3570 – 156		1	CAPACITOR, 15UF, 63V コンデンサ	
C 16	VC7 – 2090 – 471		1	CAPACITOR, 470PF, 250V コンデンサ	
C 17	VC7 – 2090 – 471		1	CAPACITOR, 470PF, 250V コンデンサ	
C 18	VC7 – 2090 – 471		1	CAPACITOR, 470PF, 250V コンデンサ	
C 19	VC7 – 3460 – 108		1	CAPACITOR, 1000UF, 35V コンデンサ	
D 1	WA1 – 1039 – 000		1	DIODE, RBV – 604 ダイオード	100/115V
	WA1 – 5149 – 000		1	DIODE, RBV406M ダイオード	220/240V

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
914 – D 2	WA1 – 5069 – 000		1	DIODE, EG01Z ダイオード	
D 3	WA1 – 5148 – 000		1	DIODE, EG01A ダイオード	100/115V
	WA1 – 5183 – 000		1	DIODE, EP01C ダイオード	220/240V
D 4	WA1 – 5069 – 000		1	DIODE, EG01Z ダイオード	
D 5	WA1 – 5216 – 000		1	DIODE, FMX – 32S ダイオード	
F 1	VD5 – 0243 – 151		1	FUSE, 250V, 3.15A ヒューズ	220/240V
	VD7 – 0215 – 001		1	FUSE, 125V, 5A ヒューズ	100/115V
J101	VS1 – 0026 – 002		1	PIN ASSEMBLY, 2P ピン アセンブリ	
J102	VS1 – 0025 – 004		1	PIN ASSEMBLY, 4P (W) ピン アセンブリ	
J103	VS1 – 0025 – 004		1	PIN ASSEMBLY, 4P (W) ピン アセンブリ	
L 1	VL5 – 0390 – 036		1	FILTER, NOISE ノイズ フイルタ	100/115V
	VL5 – 0390 – 086		1	FILTER, NOISE ノイズ フイルタ	220/240V
L 2	FH3 – 0608 – 000		1	COIL, CHOKE, 90UH, 11A チヨーク コイル	
Q 1	WA5 – 0107 – 000		1	THYRISTOR, TF861SL サイリスタ	
Q 2	WA2 – 5302 – 000		1	FET, 2SK1411 トランジスタ	100/115V
	WA2 – 5303 – 000		1	FET, 2SK1358 トランジスタ	220/240V
Q 3	WA4 – 5240 – 000		1	REGULATOR, 36V 0.15V レギユレータ	
Q 4	WG8 – 0286 – 000		1	PHOTO – COUPLER, TLP621 フオト カプラ	
Q 5	WG8 – 0286 – 000		1	PHOTO – COUPLER, TLP621 フオト カプラ	
Q 6	WA4 – 5114 – 000		1	IC, SE024N IC	
R 1	VR7 – 2000 – 100		1	RESISTOR, 10 OHM, 7W テイコウ	100/115V
	VR7 – 2000 – 150		1	RESISTOR, 15 OHM, 7W テイコウ	220/240V
R 2	VR5 – 3680 – 102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R 3	VR7 – 0550 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R 4	VR5 – 6030 – 204		1	RESISTOR, 200KOHM, 3W テイコウ	220/240V
	VR5 – 7960 – 473		1	RESISTOR, 47KOHM, 3W テイコウ	100/115V
R 5	VR5 – 7960 – 223		1	RESISTOR, 22KOHM, 3W テイコウ	100/115V
	VR5 – 7960 – 823		1	RESISTOR, 82KOHM, 3W テイコウ	220/240V
R 6	VR5 – 7960 – 331		1	RESISTOR, 330 OHM, 3W テイコウ	
R 7	VR5 – 3680 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
914 – R 8	VR5 – 6412 – 202		1	RESISTOR, 22KOHM, 1/4W テイコウ	
R 9	VR5 – 6412 – 202		1	RESISTOR, 22KOHM, 1/4W テイコウ	
R 10	VR5 – 6411 – 240		1	RESISTOR, 124 OHM, 1/4W テイコウ	
R 11	VR5 – 6870 – 101		1	RESISTOR, 100 OHM, 1/4W テイコウ	
R 12	VR5 – 3680 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R 13	VR5 – 6870 – 100		1	RESISTOR, 10 OHM, 1/4W テイコウ	
R 14	VR5 – 3680 – 104		1	RESISTOR, 100KOHM, 1/4W テイコウ	
R 15	VR5 – 3680 – 273		1	RESISTOR, 27KOHM, 1/4W テイコウ	
R 16	VR5 – 6870 – 330		1	RESISTOR, 33 OHM, 1/4W テイコウ	
R 17	VR5 – 4030 – 104		1	RESISTOR, 100KOHM, 1W テイコウ	100/115V
	VR5 – 4030 – 204		1	RESISTOR, 200KOHM, 1W テイコウ	220/240V
R 18	VR9 – 5091 – 000		1	RESISTOR, 0.1 OHM, 2W テイコウ	
R 19	VR9 – 5091 – 000		1	RESISTOR, 0.1 OHM, 2W テイコウ	100/115V
R 20	VR5 – 4590 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R 21	VR7 – 0550 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R 22	VR7 – 0550 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R 23	VR5 – 3680 – 272		1	RESISTOR, 2.7KOHM, 1/4W テイコウ	
R 24	VR5 – 7960 – 681		1	RESISTOR, 680 OHM, 3W テイコウ	
R 25	VR5 – 3680 – 470		1	RESISTOR, 47 OHM 1/4W テイコウ	
R 26	VR5 – 3680 – 101		1	RESISTOR, 100 OHM, 1/4W テイコウ	
T 1	FH3 – 0578 – 000		1	TRANSFORMER トランス	100/115V
	FH3 – 0579 – 000		1	TRANSFORMER トランス	220/240V
ZD 1	WA1 – 0729 – 000		1	DIODE, ZENER, HZ27 – 2 ツエナー ダイオード	
ZD 2	WA1 – 0729 – 000		1	DIODE, ZENER, HZ27 – 2 ツエナー ダイオード	

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FIGURE 930 DC CONTROLLER PCB ASSEMBLY(1/2)
DC コントローラ回路基板 (1/2)

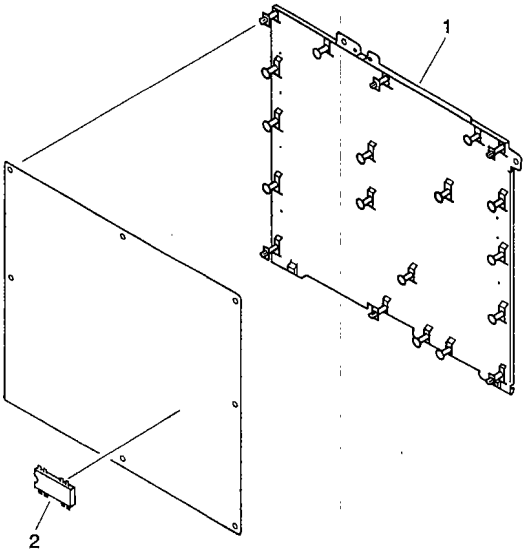

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FIGURE 930 DC CONTROLLER PCB ASSEMBLY(2/2)
DC コントローラ回路基板 (2/2)

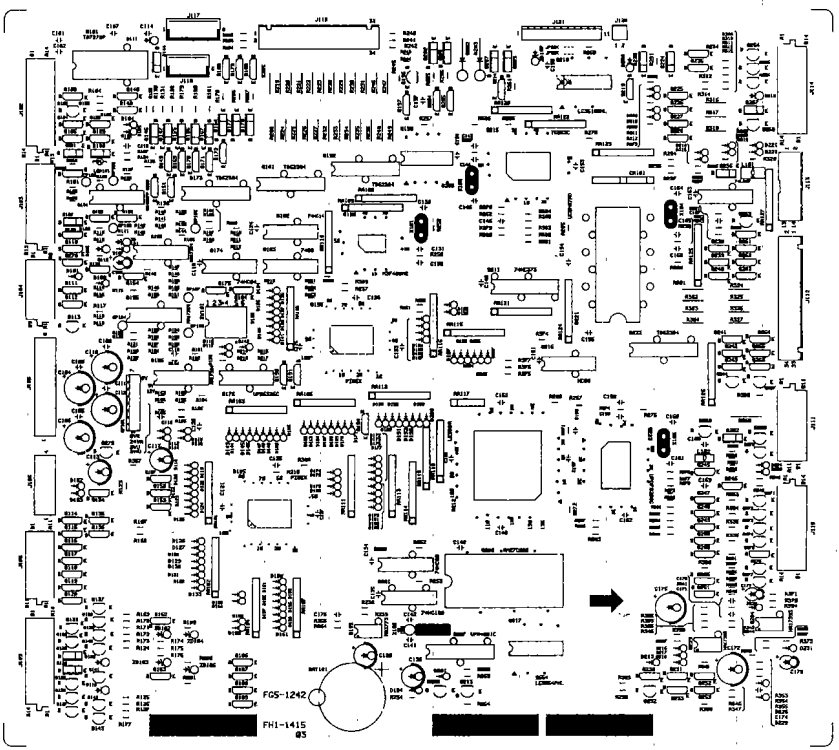

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 –	FG5 – 1242 – 080		1	DC CONTROLLER PCB ASSEMBLY DC コントローラ カイロキバン	JAPANESE
	FG5 – 1243 – 080		1	DC CONTROLLER PCB ASSEMBLY DC コントローラ カイロキバン	ENGLISH
	FG5 – 1246 – 080		1	DC CONTROLLER PCB ASSEMBLY DC コントローラ カイロキバン	FRENCH
	FG5 – 1247 – 080		1	DC CONTROLLER PCB ASSEMBLY DC コントローラ カイロキバン	GERMAN
1	FF5 – 1027 – 000		1	MOUNT, PCB キバン トリツケ イタ	
2	FF2 – 5970 – 100		1	PROM, AM27C020 PROM	Q206 JAPANESE
	FF2 – 5971 – 100		1	PROM, AM27C020 PROM	Q206 ENGLISH
	FF2 – 5972 – 100		1	PROM. AM27C020 PROM	Q206 FRENCH
	FF2 – 5973 – 100		1	PROM. AM27C020 PROM	Q206 GERMAN
C101	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C102	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C103	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C104	VC1 – 2351 – 107		1	ELECT.CAPACITOR, 100UF, 35V コンデンサ	
C105	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C106	VC1 – 2501 – 107		1	CAPACITOR, 100UF, 50V コンデンサ	
C107	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C108	VC1 – 2101 – 337		1	CAPACITOR, 330UF/10V コンデンサ	
C109	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C110	VC1 – 2161 – 107		1	CAPACITOR, 100UF, 16V コンデンサ	
C111	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C112	VC1 – 2501 – 107		1	CAPACITOR, 100UF, 50V コンデンサ	
C113	VC1 – 2101 – 226		1	CAPACITOR, 22UF, 10V コンデンサ	
C114	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C115	VC4 – 3503 – 101		1	CAPACITOR, 100PF, 50V コンデンサ	
C116	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C117	VC1 – 2101 – 226		1	CAPACITOR, 22UF, 10V コンデンサ	
C118	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C119	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C120	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C121	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – C124	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C125	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C126	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C127	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C128	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C129	VC1 – 2501 – 474		1	CAPACITOR, 0.47UF, 50V コンデンサ	
C130	VC4 – 2502 – 330		1	CAPACITOR, 33PF, 50V コンデンサ	
C131	VC4 – 2502 – 330		1	CAPACITOR, 33PF, 50V コンデンサ	
C132	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C133	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C134	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C135	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C136	VC6 – 5910 – 476		1	CAPACITOR, 47UF, 16V コンデンサ	
C137	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C138	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C139	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C140	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C141	VC5 – 1940 – 220		1	CAPACITOR, 22PF, 50V コンデンサ	
C142	VC5 – 1940 – 220		1	CAPACITOR, 22PF, 50V コンデンサ	
C143	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C144	VC4 – 2502 – 330		1	CAPACITOR, 33PF, 50V コンデンサ	
C145	VC4 – 2502 – 330		1	CAPACITOR, 33PF, 50V コンデンサ	
C146	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C148	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C149	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C150	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C151	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C152	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C153	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C154	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – C155	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C156	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C157	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C158	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C159	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C160	VC4 – 2502 – 150		1	CAPACITOR, 15PF, 50V コンデンサ	
C161	VC4 – 2502 – 150		1	CAPACITOR, 15PF, 50V コンデンサ	
C162	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C163	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C164	VC4 – 2502 – 100		1	CAPACITOR, 10PF, 50V コンデンサ	
C165	VC4 – 2502 – 100		1	CAPACITOR, 10PF, 50V コンデンサ	
C166	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C167	VC4 – 3503 – 221		1	CAPACITOR, 220PF, 50V コンデンサ	
C168	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C169	VC4 – 3503 – 101		1	CAPACITOR, 100PF, 50V コンデンサ	
C170	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C171	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C172	VC7 – 4230 – 477		1	CAPACITOR, 470UF, 10V コンデンサ	
C174	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C175	VC1 – 2101 – 337		1	CAPACITOR, 330UF/10V コンデンサ	
C176	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C177	VC1 – 2101 – 106		1	CAPACITOR, 10UF, 10V コンデンサ	
C178	VC1 – 2101 – 106		1	CAPACITOR, 10UF, 10V コンデンサ	
CA101	FH4 – 9058 – 000		1	CAPACITOR, ARRAY, 1000PX8 コンデンサ アレイ	
CP101	VS1 – 5137 – 007		1	CONNECTOR, 7P コネクタ	
D101	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D102	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D103	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D104	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D105	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – D106	WA1 – 0972 – 000		1	DIODE, S5688B ダイオード	
D107	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D108	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D109	WA1 – 0972 – 000		1	DIODE, S5688B ダイオード	
D110	WA1 – 0972 – 000		1	DIODE, S5688B ダイオード	
D111	WA1 – 0972 – 000		1	DIODE, S5688B ダイオード	
D112	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D113	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D114	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D115	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D116	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D117	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D118	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D119	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D120	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D121	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D122	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D123	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D124	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D125	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D126	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D127	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D128	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D129	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D130	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D131	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D132	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D133	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D134	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D135	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – D136	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D137	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D138	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D139	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D140	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D141	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D142	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D143	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D144	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D145	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D146	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D147	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D148	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D149	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D150	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D151	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D152	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D153	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D154	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D155	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D156	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D157	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D158	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D159	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D160	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D161	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D162	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D163	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D164	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D165	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – D166	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D167	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D168	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D169	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D170	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D171	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D172	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D173	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D174	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D175	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D176	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D177	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D178	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D179	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D180	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D181	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D182	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D183	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D184	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D185	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D186	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D187	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D188	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D189	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D190	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D191	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D192	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D193	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D194	WA1 – 1135 – 000		1	DIODE, 1SS286 ダイオード	
D195	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – D196	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D197	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D198	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D199	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D200	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D201	WA1 – 1135 – 000		1	DIODE, 1SS286 ダイオード	
D202	WA1 – 0043 – 000		1	DIODE, 3BZ61 ダイオード	
D203	WA1 – 0043 – 000		1	DIODE, 3BZ61 ダイオード	
D204	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D205	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D206	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D207	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D208	WA1 – 0972 – 000		1	DIODE, S5688B ダイオード	
D209	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D210	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D211	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D212	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D213	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D214	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D215	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D216	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D217	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D218	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D219	WA1 – 0972 – 000		1	DIODE, S5688B ダイオード	
D220	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D221	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D222	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D223	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D224	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D225	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – D228	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D229	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D230	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D231	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D232	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
D233	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
DL101	WK3 – 0181 – 000		1	DELAY LINE ディレイ ライン	
J102	VS1 – 5328 – 028		1	PIN ASSEMBLY, 28P ピン アセンブリ	
J103	VS1 – 5328 – 026		1	PIN ASSEMBLY, 26P ピン アセンブリ	
J104	VS1 – 5328 – 018		1	PIN ASSEMBLY, 18P ピン アセンブリ	
J105	VS1 – 0025 – 008		1	PIN ASSEMBLY, 8P ピン アセンブリ	
J106	VS1 – 0025 – 004		1	PIN ASSEMBLY, 4P (W) ピン アセンブリ	
J108	VS1 – 5328 – 022		1	PIN ASSEMBLY, 22P ピン アセンブリ	
J109	VS1 – 5328 – 028		1	PIN ASSEMBLY, 28P ピン アセンブリ	
J110	VS1 – 5328 – 028		1	PIN ASSEMBLY, 28P ピン アセンブリ	
J111	VS1 – 5328 – 022		1	PIN ASSEMBLY, 22P ピン アセンブリ	
J112	VS1 – 5031 – 034		1	CONNECTOR, 34P コネクタ	
J113	VS1 – 0447 – 014		1	CONNECTOR, 14P コネクタ	
J114	VS1 – 5328 – 022		1	PIN ASSEMBLY, 22P ピン アセンブリ	
J117	VS1 – 1028 – 008		1	PIN ASSEMBLY, 8P ピン アセンブリ	
J118	VS1 – 1028 – 006		1	PIN ASSEMBLY, 6P ピン アセンブリ	
J119	VS1 – 5031 – 034		1	CONNECTOR, 34P コネクタ	
J120	WS3 – 0580 – 000		1	PIN ASSEMBLY, 2P ピン アセンブリ	
J121	VS1 – 5137 – 011		1	CONNECTOR, 11P コネクタ	
L101	WE2 – 0411 – 000		1	INDUCTOR, SBT – 0460 インダクタ	
L102	VL5 – 0740 – 223		1	INDUCTOR, LAL02TB220K インダクタ	
LED101	WG1 – 0373 – 000		1	LED, SEL2110R LED	
Q101	WA4 – 1032 – 000		1	TRANSISTOR, TA7279P トランジスタ	
Q102	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q103	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – Q104	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q105	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q108	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q109	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q110	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q111	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q113	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q114	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q115	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q116	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q117	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q118	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q119	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q120	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q121	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q122	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q123	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q124	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q125	WA2 – 0285 – 000		1	TRANSISTOR, 2SD667AC トランジスタ	
Q126	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q127	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q128	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q129	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q130	WA2 – 0808 – 000		1	TRANSISTOR, 2SD1658 トランジスタ	
Q131	WA4 – 0232 – 000		1	IC, M54567P IC	
Q132	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q133	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q134	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q135	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q136	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – Q137	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q138	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q139	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q140	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q141	WA2 – 0285 – 000		1	TRANSISTOR, 2SD667AC トランジスタ	
Q142	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q143	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q144	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q145	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q146	WA2 – 0808 – 000		1	TRANSISTOR, 2SD1658 トランジスタ	
Q147	WA2 – 0808 – 000		1	TRANSISTOR, 2SD1658 トランジスタ	
Q148	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q149	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q150	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q151	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q152	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q153	WA4 – 0534 – 000		1	IC, OP AMP, 324 IC	
Q154	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q155	WA4 – 0534 – 000		1	IC, OP AMP, 324 IC	
Q156	WA4 – 0534 – 000		1	IC, OP AMP, 324 IC	
Q157	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q158	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q159	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q162	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q163	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q164	WA2 – 0863 – 000		1	TRANSISTOR トランジスタ	
Q165	WA2 – 0808 – 000		1	TRANSISTOR, 2SD1658 トランジスタ	
Q166	WA2 – 0808 – 000		1	TRANSISTOR, 2SD1658 トランジスタ	
Q167	WA2 – 0808 – 000		1	TRANSISTOR, 2SD1658 トランジスタ	
Q168	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – Q169	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q170	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q171	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q172	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q173	WA4 – 1105 – 000		1	TRANSISTOR ARRAY, TD62304P トランジスタ アレイ	
Q174	WA3 – 1888 – 000		1	IC, TC74HC04P IC	
Q175	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q176	WA4 – 1087 – 000		1	D/A CONVERTER, UPD6326C D/A コンバータ	
Q177	WA2 – 0863 – 000		1	TRANSISTOR トランジスタ	
Q178	WA2 – 0863 – 000		1	TRANSISTOR トランジスタ	
Q179	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q180	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q181	WA4 – 1105 – 000		1	TRANSISTOR ARRAY, TD62304P トランジスタ アレイ	
Q182	WA3 – 1982 – 000		1	IC, 2SD1098L IC	
Q183	WA3 – 1118 – 000		1	IC, HD7438P IC	
Q184	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q185	FH4 – 5347 – 000		1	GATE ARRAY, UPD65013GF – C26 ゲート アレイ	
Q186	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q187	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q188	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q189	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q190	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q191	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q192	WA4 – 1105 – 000		1	TRANSISTOR ARRAY, TD62304P トランジスタ アレイ	
Q193	FH4 – 5347 – 000		1	GATE ARRAY, UPD65013GF – C26 ゲート アレイ	
Q194	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q195	WA4 – 0672 – 000		1	IC, MB3773 IC	
Q196	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q197	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q198	WA3 – 4360 – 000		1	IC, CMOS, TMP82C55AM – 10 IC	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – Q199	WA3 – 4330 – 000		1	LSI, M37409M2 – 051FP LSI	
Q200	WA3 – 1983 – 000		1	IC, TC74HC08P IC	
Q201	WA3 – 1832 – 000		1	HC, 139P IC	
Q202	WA2 – 0863 – 000		1	TRANSISTOR トランジスタ	
Q203	WA2 – 0863 – 000		1	TRANSISTOR トランジスタ	
Q204	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q205	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q206	WA9 – 5027 – 000		1	SOCKET, IC, 32P IC ソケット	
Q207	WA3 – 6018 – 000		1	IC, UPD4991ACX IC	
Q208	WA2 – 0135 – 000		1	TRANSISTOR, 2SA1015Y トランジスタ	
Q209	WA2 – 0863 – 000		1	TRANSISTOR トランジスタ	
Q211	WA3 – 2100 – 000		1	IC, TC74HC373P IC	
Q212	FH4 – 5354 – 000		1	GATE ARRAY, HG62F22R09FH ゲート アレイ	
Q213	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q214	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q215	WA3 – 2599 – 000		1	IC, T6963C IC	
Q216	WA3 – 1983 – 000		1	IC, TC74HC08P IC	
Q217	WA3 – 6012 – 000		1	RAM, LC3564PML – 12 RAM	
Q218	WA3 – 3968 – 000		1	RAM LC3518BML – 15 RAM	
Q219	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q220	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q221	FH4 – 1163 – 000		1	CPU, UPD78C14G CPU	
Q222	WA4 – 1105 – 000		1	TRANSISTOR ARRAY, TD62304P トランジスタ アレイ	
Q223	WA3 – 3203 – 000		1	CPU, UPD70208GF – 8 CPU	
Q224	WA2 – 0808 – 000		1	TRANSISTOR, 2SD1658 トランジスタ	
Q225	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q226	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q227	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q228	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q229	WA4 – 0536 – 000		1	IC, HA17903PS IC	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – Q230	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q231	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q232	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q233	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q234	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q235	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q236	WA2 – 0808 – 000		1	TRANSISTOR, 2SD1658 トランジスタ	
Q237	WA3 – 0849 – 000		1	IC, HD7407 IC	
Q238	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q239	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q240	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q241	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q242	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q243	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q244	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q245	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q246	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q247	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q248	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q249	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q250	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q251	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q252	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q253	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q254	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q255	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q256	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q257	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q258	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q259	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – Q260	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q261	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q262	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q263	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q264	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q265	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q266	WA2 – 1178 – 000		1	TRANSISTOR, DTA114ES トランジスタ	
Q267	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q268	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q269	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q270	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q271	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q272	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q273	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q274	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q275	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q276	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q277	WA2 – 1387 – 000		1	TRANSISTOR, 2SB1098L トランジスタ	
Q278	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q279	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
Q280	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q281	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q282	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q283	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q284	WA4 – 0536 – 000		1	IC, HA17903PS IC	
Q285	WA2 – 1101 – 000		1	TRANSISTOR, DTC114ES トランジスタ	
Q287	WA2 – 0863 – 000		1	TRANSISTOR トランジスタ	
R101	VR5 – 2290 – 101		1	RESISTOR, 100 OHM, 1/5W テイコウ	
R102	VR5 – 2290 – 101		1	RESISTOR, 100 OHM, 1/5W テイコウ	
R103	VR5 – 2290 – 101		1	RESISTOR, 100 OHM, 1/5W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R104	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R105	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R106	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R107	VR5 – 2290 – 471		1	RESISTOR, 470 OHM, 1/5W テイコウ	
R108	VR5 – 2290 – 101		1	RESISTOR, 100 OHM, 1/5W テイコウ	
R109	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R110	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R111	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R112	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R113	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R114	VR5 – 2290 – 223		1	RESISTOR, 22KOHM, 1/5W テイコウ	
R115	VR5 – 9162 – 262		1	RESISTOR, 22.6KOHM, 1/4W テイコウ	
R116	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R117	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R118	VR5 – 2290 – 101		1	RESISTOR, 100 OHM, 1/5W テイコウ	
R119	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R120	VR5 – 6412 – 001		1	RESISTOR, 2KOHM, 1/4W テイコウ	
R121	VR5 – 9162 – 262		1	RESISTOR, 22.6KOHM, 1/4W テイコウ	
R122	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R123	VR5 – 2290 – 473		1	RESISTOR, 47KOHM, 1/5W テイコウ	
R124	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R125	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R126	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R127	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R128	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R129	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R130	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R131	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R132	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R134	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R135	VR5 – 2290 – 681		1	RESISTOR, 680 OHM, 1/5W テイコウ	
R137	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R138	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R139	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R140	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R141	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R142	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R143	VR5 – 9162 – 262		1	RESISTOR, 22.6KOHM, 1/4W テイコウ	
R144	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R145	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R146	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R147	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R148	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R149	VR5 – 9163 – 002		1	RESISTOR, 30KOHM, 1/4W テイコウ	
R150	VR5 – 9162 – 262		1	RESISTOR, 22.6KOHM, 1/4W テイコウ	
R151	VR5 – 9162 – 262		1	RESISTOR, 22.6KOHM, 1/4W テイコウ	
R152	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R153	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R154	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R155	VR5 – 9162 – 262		1	RESISTOR, 22.6KOHM, 1/4W テイコウ	
R156	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R157	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R158	VR5 – 9164 – 992		1	RESISTOR, 49.9KOHM, 1/4W テイコウ	
R159	VR5 – 9163 – 002		1	RESISTOR, 30KOHM, 1/4W テイコウ	
R160	VR5 – 9163 – 002		1	RESISTOR, 30KOHM, 1/4W テイコウ	
R161	VR5 – 9163 – 302		1	RESISTOR, 33KOHM, 1/4W テイコウ	
R162	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R163	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R164	VR5 – 9164 – 992		1	RESISTOR, 49.9KOHM, 1/4W テイコウ	
R165	VR5 – 9162 – 492		1	RESISTOR, 24.9KOHM, 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R166	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R167	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R168	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R169	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R170	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R171	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R172	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R173	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R174	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R175	VR5 – 2290 – 223		1	RESISTOR, 22KOHM, 1/5W テイコウ	
R176	VR5 – 2290 – 223		1	RESISTOR, 22KOHM, 1/5W テイコウ	
R177	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R178	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R179	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R180	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R181	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R182	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R183	VR5 – 2290 – 101		1	RESISTOR, 100 OHM, 1/5W テイコウ	
R184	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R185	VR5 – 9163 – 002		1	RESISTOR, 30KOHM, 1/4W テイコウ	
R186	VR5 – 9163 – 002		1	RESISTOR, 30KOHM, 1/4W テイコウ	
R187	VR5 – 9163 – 002		1	RESISTOR, 30KOHM, 1/4W テイコウ	
R188	VR5 – 9163 – 002		1	RESISTOR, 30KOHM, 1/4W テイコウ	
R189	VR5 – 2290 – 101		1	RESISTOR, 100 OHM, 1/5W テイコウ	
R190	VR5 – 9163 – 002		1	RESISTOR, 30KOHM, 1/4W テイコウ	
R191	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R192	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R193	VR5 – 6412 – 001		1	RESISTOR, 2KOHM, 1/4W テイコウ	
R194	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R195	VR5 – 9164 – 642		1	RESISTOR, 46.4KOHM, 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R196	VR5 – 9163 – 602		1	RESISTOR, 36KOHM, 1/5W テイコウ	
R199	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R200	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R201	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R202	VR5 – 2290 – 104		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R203	VR5 – 2290 – 104		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R204	VR5 – 2290 – 104		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R205	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R206	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R207	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R208	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R209	VR5 – 9162 – 262		1	RESISTOR, 22.6KOHM, 1/4W テイコウ	
R210	VR5 – 9162 – 262		1	RESISTOR, 22.6KOHM, 1/4W テイコウ	
R211	VR5 – 6412 – 001		1	RESISTOR, 2KOHM, 1/4W テイコウ	
R212	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R213	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R214	VR5 – 6412 – 001		1	RESISTOR, 2KOHM, 1/4W テイコウ	
R215	VR5 – 6412 – 001		1	RESISTOR, 2KOHM, 1/4W テイコウ	
R216	VR5 – 6412 – 001		1	RESISTOR, 2KOHM, 1/4W テイコウ	
R217	VR5 – 6412 – 001		1	RESISTOR, 2KOHM, 1/4W テイコウ	
R218	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R219	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R220	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R221	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R222	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R223	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R224	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R225	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R226	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R227	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R228	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R229	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R230	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R231	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R232	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R233	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R234	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R235	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R236	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R237	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R238	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R239	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R240	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R241	VR5 – 2290 – 104		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R242	VR5 – 2290 – 104		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R243	VR5 – 2290 – 471		1	RESISTOR, 470 OHM, 1/5W テイコウ	
R244	VR5 – 2290 – 471		1	RESISTOR, 470 OHM, 1/5W テイコウ	
R245	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R246	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R247	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R248	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R249	VR5 – 6290 – 101		1	RESISTOR, 100 OHM, 1W テイコウ	
R250	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R251	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R252	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R253	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R254	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R255	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R256	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R257	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R258	VR5 – 2290 – 105		1	RESISTOR, 1MOHM, 1/5W テイコウ	
R259	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R260	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R261	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R262	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R263	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R264	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R265	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R266	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R267	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R268	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R269	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R270	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R271	VR5 – 2290 – 511		1	RESISTOR, 510 OHM, 1/5W テイコウ	
R272	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R273	VR5 – 2290 – 203		1	RESISTOR, 20KOHM, 1/5W テイコウ	
R274	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R275	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R276	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R277	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R278	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R279	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R280	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R281	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R282	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R283	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R284	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R285	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R286	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R287	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R288	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R289	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R290	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R291	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R292	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R293	VR5 – 2290 – 223		1	RESISTOR, 22KOHM, 1/5W テイコウ	
R294	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R295	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R296	VR5 – 2290 – 203		1	RESISTOR, 20KOHM, 1/5W テイコウ	
R297	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R298	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R299	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R300	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R301	VR5 – 6290 – 151		1	RESISTOR, 150 OHM, 1W テイコウ	
R302	VR5 – 6290 – 151		1	RESISTOR, 150 OHM, 1W テイコウ	
R303	VR5 – 6290 – 151		1	RESISTOR, 150 OHM, 1W テイコウ	
R304	VR5 – 6290 – 151		1	RESISTOR, 150 OHM, 1W テイコウ	
R305	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R306	VR5 – 9168 – 251		1	RESISTOR, 8.25KOHM, 1/4W テイコウ	
R307	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R308	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R309	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R310	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R311	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R312	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R313	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R314	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R315	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R316	VR5 – 6290 – 390		1	RESISTOR, 39 OHM, 1W テイコウ	
R317	VR5 – 6290 – 390		1	RESISTOR, 39 OHM, 1W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R318	VR5 – 6290 – 390		1	RESISTOR, 39 OHM, 1W テイコウ	
R319	VR5 – 2290 – 203		1	RESISTOR, 20KOHM, 1/5W テイコウ	
R320	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R321	VR5 – 9161 – 609		1	RESISTOR, 16 OHM, 1/4W テイコウ	
R322	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R323	VR5 – 2290 – 332		1	RESISTOR, 3.3KOHM, 1/5W テイコウ	
R324	VR5 – 6290 – 151		1	RESISTOR, 150 OHM, 1W テイコウ	
R325	VR5 – 6290 – 151		1	RESISTOR, 150 OHM, 1W テイコウ	
R326	VR5 – 6290 – 151		1	RESISTOR, 150 OHM, 1W テイコウ	
R327	VR5 – 6290 – 151		1	RESISTOR, 150 OHM, 1W テイコウ	
R328	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R329	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R330	VR5 – 2290 – 473		1	RESISTOR, 47KOHM, 1/5W テイコウ	
R331	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R332	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R333	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R334	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R335	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R336	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R337	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R338	VR5 – 2290 – 473		1	RESISTOR, 47KOHM, 1/5W テイコウ	
R339	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R340	VR5 – 9166 – 651		1	RESISTOR, 6.65KOHM, 1/4W テイコウ	
R341	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R342	VR5 – 9162 – 321		1	RESISTOR, 23.2KOHM, 1/4W テイコウ	
R343	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R344	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R345	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R346	VR5 – 2290 – 560		1	RESISTOR, 56 OHM, 1/5W テイコウ	
R347	VR5 – 9161 – 303		1	RESISTOR, 130KOHM, 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R348	VR5 – 2290 – 471		1	RESISTOR, 470 OHM, 1/5W テイコウ	
R349	VR5 – 2290 – 221		1	RESISTOR, 220 OHM, 1/5W テイコウ	
R353	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R354	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R355	VR5 – 2290 – 102		1	RESISTOR, 1KOHM, 1/5W テイコウ	
R357	VR5 – 2290 – 202		1	RESISTOR, 2KOHM, 1/5W テイコウ	
R358	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R359	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R360	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R361	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R362	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R363	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R364	VR5 – 6413 – 831		1	RESISTOR, 3.83KOHM, 1/4W テイコウ	
R365	VR5 – 6411 – 022		1	RESISTOR, 10.2KOHM, 1/4W テイコウ	
R367	VR5 – 9163 – 602		1	RESISTOR, 36KOHM, 1/5W テイコウ	
R368	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R369	VR5 – 6300 – 100		1	RESISTOR, 10 OHM, 1/4W テイコウ	
R370	VR5 – 9163 – 602		1	RESISTOR, 36KOHM, 1/5W テイコウ	
R371	VR5 – 9162 – 612		1	RESISTOR, 26.1KOHM, 1/4W テイコウ	
R373	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R374	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R375	VR5 – 2290 – 471		1	RESISTOR, 470 OHM, 1/5W テイコウ	
R376	VR5 – 2290 – 471		1	RESISTOR, 470 OHM, 1/5W テイコウ	
R377	VR5 – 2290 – 471		1	RESISTOR, 470 OHM, 1/5W テイコウ	
R378	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R379	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R380	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R381	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R382	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R383	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – R384	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R385	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R386	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R387	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R388	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R389	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R390	VR5 – 2290 – 123		1	RESISTOR, 12KOHM, 1/5W テイコウ	
R391	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R392	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R393	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R394	VR5 – 2290 – 472		1	RESISTOR,4.7KOHM, 1/5W テイコウ	
R395	VR5 – 2290 – 104		1	RESISTOR, 10KOHM, 1/5W テイコウ	
RA101	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA102	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA103	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA104	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA105	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA106	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA107	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA108	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA109	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA110	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA111	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA112	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA113	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA114	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA115	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA116	FH4 – 9152 – 000		1	RESISTOR ARRAY, M9 – 6 – 472/223J テイコウ アレイ	
RA117	VR4 – 0044 – 103		1	RESISTOR ARRAY 10K テイコウ アレイ	
RA118	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 – RA119	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA120	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA121	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA122	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA123	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA124	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA125	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA126	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
RA127	VR4 – 0084 – 103		1	RESISTOR ARRAY, 10KOHM テイコウ アレイ	
SW101	WC8 – 5026 – 000		1	SWITCH, DIGITAL デジタル スイツチ	
X101	WK2 – 0150 – 000		1	QUARTZ, CERAMIC セラミック シンドウシ	
X102	WK2 – 0002 – 000		1	CRYSTAL, QUARTZ スイシヨウ シンドウシ	
X103	WK2 – 0463 – 000		1	CRYSTAL, QUARTZ スイシヨウ シンドウシ	
X104	FH8 – 3196 – 000		1	CRYSTAL OSCILLATOR, 12.85MHZ スイシヨウ シンドウシ	
X105	WK2 – 0301 – 000		1	CRYSTAL, QUARTZ スイシヨウ シンドウシ	
ZD101	WA1 – 5119 – 000		1	DIODE, ZENER, RD2.0HS ツエナー ダイオード	
ZD102	WA1 – 1037 – 000		1	DIODE, ZENER HZS15NB3 ツエナー ダイオード	
ZD103	WA1 – 1037 – 000		1	DIODE, ZENER HZS15NB3 ツエナー ダイオード	
ZD104	WA1 – 1037 – 000		1	DIODE, ZENER HZS15NB3 ツエナー ダイオード	
ZD105	WA1 – 1037 – 000		1	DIODE, ZENER HZS15NB3 ツエナー ダイオード	
ZD107	WA1 – 0957 – 000		1	DIODE, ZENER ツェナー ダイオード	

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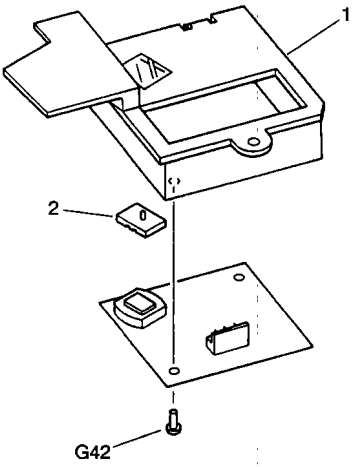
FIGURE 970 AE SENSOR ASSEMBLY
AE センサ部



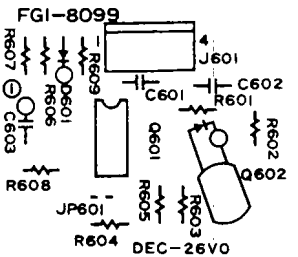


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
970 –	FG1 – 8099 – 000		1	AE SENSOR ASSEMBLY AE センサ ブ	
1	FF1 – 9445 – 020		1	HOUSING, AE SENSOR AE ホルダ	
2	FN1 – 0235 – 000		1	LENS CAP レンズ キャップ	
C601	VC5 – 1890 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C602	VC5 – 1890 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C603	VC1 – 2501 – 335		1	CAPACITOR, 3.3UF, 50V コンデンサ	
D601	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
J601	WS3 – 0586 – 000		1	PIN ASSEMBLY, 4P ピン アセンブリ	
Q601	WA4 – 0219 – 000		1	IC, MJM082D IC	
Q602	WG3 – 0055 – 000		1	PHOTO – DIODE, BS520 フオト ダイオード	
R601	VR5 – 6413 – 011		1	RESISTOR, 3.01KOHM, 1/4W テイコウ	
R602	VR5 – 6411 – 371		1	RESISTOR, 1.37KOHM, 1/4W テイコウ	
R603	VR5 – 6411 – 004		1	RESISTOR, 1MOHM, 1/4W テイコウ	
R604	VR5 – 6418 – 872		1	RESISTOR, 88.7KOHM, 1/4W テイコウ	
R605	VR5 – 6411 – 211		1	RESISTOR, 1.21KOHM, 1/4W テイコウ	
R606	VR5 – 3680 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R607	VR5 – 3680 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R608	VR5 – 3680 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R609	VR5 – 3680 – 101		1	RESISTOR, 100 OHM, 1/4W テイコウ	

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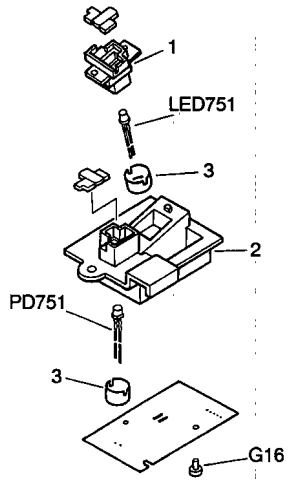
FIGURE 972 DOCUMENT DETECTION UNIT 1
原稿サイズ検知 (1)



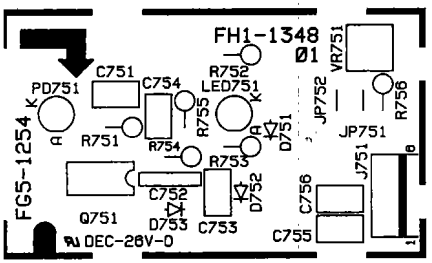


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
972 –	FG5 – 1254 – 030		1	DOCUMENT DETECTION UNIT 1 ゲンコウ サイズ ケンチ (1)	
1	FA6 – 3891 – 000		1	CASE, LED LED ケース	
2	FA6 – 2664 – 000		1	HOLDER, 2 ケンチ ホルダ (2)	
3	FA6 – 3892 – 000		2	CAP LED キヤツプ	
C751	VC5 – 1940 – 330		1	CAPACITOR, 33PF, 50V コンデンサ	
C752	VC6 – 1140 – 105		1	CAPACITOR, 1UF, 25V コンデンサ	
C753	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C754	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C755	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C756	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
D751	WA1 – 0332 – 000		1	DIODE, 1SS176 ダイオード	
D752	WA1 – 0332 – 000		1	DIODE, 1SS176 ダイオード	
D753	WA1 – 0332 – 000		1	DIODE, 1SS176 ダイオード	
J751	VS1 – 1029 – 006		1	CONNECTOR, 6P コネクタ	
LED751	FH6 – 3150 – 000		1	LED, LN64CA LED	
PD751	FH7 – 7225 – 000		1	PHOTO DIODE,900NM,PN334 – (NC)CA フオト ダイオード	
Q751	WA4 – 0367 – 000		1	IC, UPC358 IC	
R751	VR5 – 6414 – 993		1	RESISTOR, 499KOHM, 1/4W テイコウ	
R752	VR5 – 6415 – 100		1	RESISTOR, 510 OHMS テイコウ	
R753	VR5 – 2290 – 334		1	RESISTOR, 330KOHM, 1/5W テイコウ	
R754	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R755	VR5 – 2290 – 104		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R756	VR5 – 2290 – 101		1	RESISTOR, 100 OHM, 1/5W テイコウ	
VR751	VR5 – 6550 – 503		1	RESISTOR, VARIABLE, 50KOHM カヘン テイコウ	

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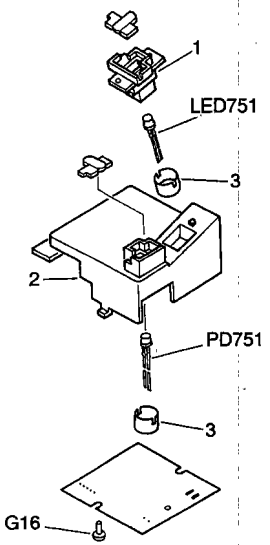
FIGURE 973 DOCUMENT DETECTION UNIT 2
原稿サイズ検知 (2)



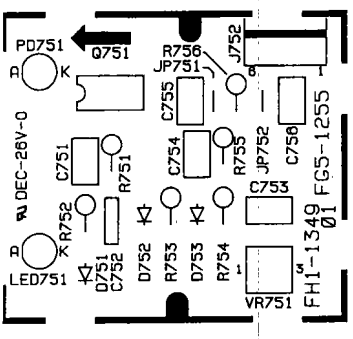


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
973 –	FG5 – 1255 – 030		1	DOCUMENT DETECTION UNIT 2 ゲンコウ サイズ ケンチ (2)	
1	FA6 – 3891 – 000		1	CASE, LED LED ケース	
2	FA6 – 2661 – 000		1	HOLDER, 1 ケンチ ホルダ (1)	
3	FA6 – 3892 – 000		2	CAP LED キャップ	
C751	VC5 – 1940 – 330		1	CAPACITOR, 33PF, 50V コンデンサ	
C752	VC6 – 1140 – 105		1	CAPACITOR, 1UF, 25V コンデンサ	
C753	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C754	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C755	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C756	VC9 – 5047 – 000		1	CAPACITOR, 0.1UF, 50V コンデンサ	
D751	WA1 – 0332 – 000		1	DIODE, 1SS176 ダイオード	
D752	WA1 – 0332 – 000		1	DIODE, 1SS176 ダイオード	
D753	WA1 – 0332 – 000		1	DIODE, 1SS176 ダイオード	
J752	VS1 – 1029 – 006		1	CONNECTOR, 6P コネクタ	
LED751	FH6 – 3150 – 000		1	LED, LN64CA LED	
PD751	FH7 – 7225 – 000		1	PHOTO DIODE,900NM,PN334 – (NC)CA フオト ダイオード	
Q751	WA4 – 0367 – 000		1	IC, UPC358 IC	
R751	VR5 – 6414 – 993		1	RESISTOR, 499KOHM, 1/4W テイコウ	
R752	VR5 – 6415 – 100		1	RESISTOR, 510 OHMS テイコウ	
R753	VR5 – 2290 – 334		1	RESISTOR, 330KOHM, 1/5W テイコウ	
R754	VR5 – 2290 – 103		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R755	VR5 – 2290 – 104		1	RESISTOR, 10KOHM, 1/5W テイコウ	
R756	VR5 – 2290 – 101		1	RESISTOR, 100 OHM, 1/5W テイコウ	
VR751	VR5 – 6550 – 503		1	RESISTOR, VARIABLE, 50KOHM カヘン テイコウ	

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FIGURE 978 SERVICE SWITCH PCB ASSEMBLY
サービススイッチ基板

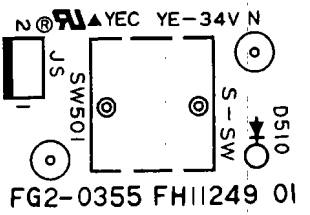

FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
978 –	FG2 – 0355 – 000		1	SERVICE SWITCH PCB ASSEMBLY サービス スイッチ キバン	
D510	WA1 – 0887 – 000		1	DIODE, 1SS270A ダイオード	
JS	WS3 – 0580 – 000		1	PIN ASSEMBLY, 2P ピン アセンブリ	
SW501	WC2 – 0056 – 000		1	KEY SWITCH キー スイッチ	

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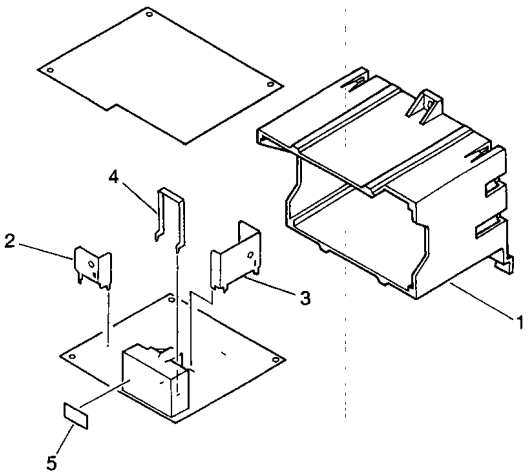
FIGURE 980 H.V.TRANSFORMER ASSEMBLY
高圧トランス部



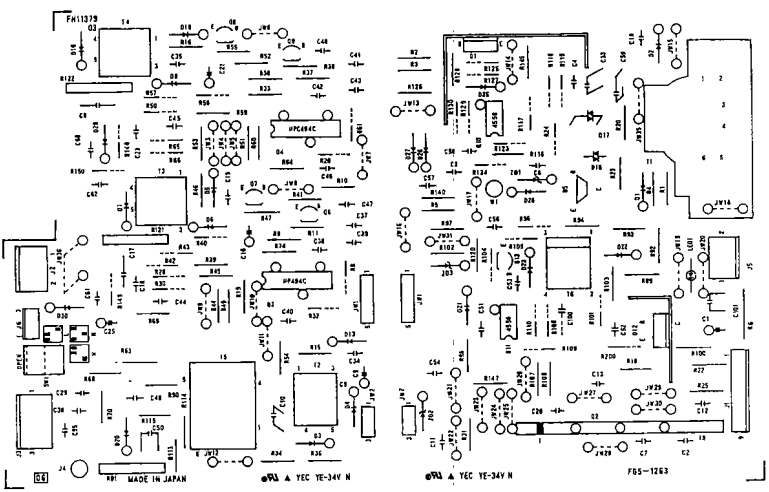


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
980 –	FG5 – 1263 – 050		1	HV TRANSFORMER ASSEMBLY DC コウアツ トランス (DC)	
1	FB1 – 6160 – 000		1	CASE, H.V コウアツ ケース	
2	FB1 – 6161 – 000		1	HEATSINK ホウネツ バン	
3	FB1 – 6162 – 000		1	HEATSINK ホウネツ バン	
4	FB1 – 6163 – 000		1	PLATE ショート リング	
5	FS3 – 8377 – 000		1	LABEL, "WARNING, HIGH VOLTAGE" コウアツ チユウイ メイハン	
C 1	VC7 – 2040 – 476		1	CAPACITOR, 47UF, 35V コンデンサ	
C 2	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 3	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 4	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C 6	VC6 – 1150 – 103		1	CAPACITOR, 0.01UF, 25V コンデンサ	
C 7	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 8	VC9 – 1413 – 000		1	CAPACITOR, 4700PF 2KV コンデンサ	
C 9	VC7 – 2040 – 476		1	CAPACITOR, 47UF, 35V コンデンサ	
C 10	VC9 – 5076 – 000		1	CAPACITOR, 0.01UF, 1KV コンデンサ	
C 11	VC4 – 3503 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C 12	VC5 – 4530 – 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 13	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 15	VC4 – 4504 – 473		1	CAPACITOR, 0.047UF, 50V コンデンサ	
C 16	VC7 – 2750 – 476		1	CAPACITOR, 47UF, 35V コンデンサ	
C 17	VC9 – 1381 – 000		1	CAPACITOR, 2200PF 2KV コンデンサ	
C 18	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 19	VC5 – 2810 – 153		1	CAPACITOR, 0.015UF, 200V コンデンサ	
C 21	VC7 – 2750 – 476		1	CAPACITOR, 47UF, 35V コンデンサ	
C 23	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 25	VC7 – 2040 – 476		1	CAPACITOR, 47UF, 35V コンデンサ	
C 28	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 29	VC6 – 0160 – 332		1	CAPACITOR, 3000PF, 500V コンデンサ	
C 33	VC7 – 3800 – 102		1	CAPACITOR, 1000PF, 2V コンデンサ	
C 34	VC4 – 4504 – 473		1	CAPACITOR, 0.047UF, 50V コンデンサ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
980 – C 35	VC4 – 4504 – 473		1	CAPACITOR, 0.047UF, 50V コンデンサ	
C 36	VC7 – 3450 – 471		1	CAPACITOR, 470PF, 500V コンデンサ	
C 37	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 38	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 39	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 40	VC9 – 1511 – 000		1	CAPACITOR, 960PF, 50V コンデンサ	
C 41	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 42	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 43	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 44	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 45	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 46	VC9 – 1511 – 000		1	CAPACITOR, 960PF, 50V コンデンサ	
C 47	VC4 – 4504 – 102		1	CAPACITOR, 0.001UF, 50V コンデンサ	
C 48	VC4 – 4504 – 102		1	CAPACITOR, 0.001UF, 50V コンデンサ	
C 49	VC9 – 5076 – 000		1	CAPACITOR, 0.01UF, 1KV コンデンサ	
C 50	VC9 – 5076 – 000		1	CAPACITOR, 0.01UF, 1KV コンデンサ	
C 51	VC5 – 7010 – 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 52	VC5 – 7010 – 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 53	VC4 – 4504 – 103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C 54	VC4 – 4504 – 102		1	CAPACITOR, 0.001UF, 50V コンデンサ	
C 55	VC7 – 3450 – 391		1	CAPACITOR, 390PF, 500V コンデンサ	
C 56	VC4 – 3503 – 101		1	CAPACITOR, 100PF, 50V コンデンサ	
C 57	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 58	VC9 – 0947 – 000		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 59	VC7 – 3800 – 102		1	CAPACITOR, 1000PF, 2V コンデンサ	
C 60	VC6 – 4760 – 104		1	CAPACITOR, 0.1UF, 25V コンデンサ	
C 61	VC6 – 1150 – 473		1	CAPACITOR, 0.047UF, 25V コンデンサ	
C 62	VC6 – 1150 – 103		1	CAPACITOR, 0.01UF, 25V コンデンサ	
D 1	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 2	WA1 – 0301 – 000		1	DIODE, EM – 1Z ダイオード	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
980 – D 3	WA1 – 0396 – 000		1	DIODE, SHV – 03 ダイオード	
D 4	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 5	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 6	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 7	WA1 – 0396 – 000		1	DIODE, SHV – 03 ダイオード	
D 9	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 10	WA1 – 0396 – 000		1	DIODE, SHV – 03 ダイオード	
D 13	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 16	WA8 – 0071 – 000		1	VARISTOR, TNR15G821K バリスタ	
D 17	WA8 – 0071 – 000		1	VARISTOR, TNR15G821K バリスタ	
D 18	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 20	WA1 – 0396 – 000		1	DIODE, SHV – 03 ダイオード	
D 21	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 22	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 23	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 25	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 26	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 27	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 28	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 29	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 30	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
J 1	WS3 – 0538 – 000		1	PIN ASSEMBLY, 9P ピン アセンブリ	
J 2	VS1 – 0026 – 002		1	PIN ASSEMBLY, 2P ピン アセンブリ	
J 3	VS1 – 0026 – 003		1	PIN ASSEMBLY, 3P ピン アセンブリ	
J 4	FF1 – 3654 – 000		1	CABLE, UNIT ケーブル ユニット	
J 5	WS1 – 0492 – 000		1	PIN ASSEMBLY, 2P ピン アセンブリ	
J 6	WS3 – 0420 – 000		1	PIN ASSEMBLY, 3P (W) ピン アセンブリ	
JW 1	FH2 – 5896 – 000		1	WIRE, JUMPER ジャンパ セン	
JW 2	FH2 – 5737 – 000		1	CABLE, JUMPER ジャンパ セン	
LED 1	WG1 – 0140 – 000		1	LED, LT – 8201P LED	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
980 – Q 1	WA2 – 0831 – 000		1	TRANSISTOR, 2SC3834 トランジスタ	
Q 2	FH4 – 5410 – 000		1	HYBRID IC, MC – 8611 IC	
Q 3	WA4 – 0452 – 000		1	IC, UPC494C IC	
Q 4	WA4 – 0452 – 000		1	IC, UPC494C IC	
Q 5	WA2 – 5321 – 000		1	TRANSISTOR, 2SC4634 – RA トランジスタ	
Q 6	WA2 – 0036 – 000		1	TRANSISTOR, 2SC2120Y トランジスタ	
Q 7	WA2 – 0875 – 000		1	TRANSISTOR, 2SD438 トランジスタ	
Q 8	WA2 – 0875 – 000		1	TRANSISTOR, 2SD438 トランジスタ	
Q 9	WA2 – 0036 – 000		1	TRANSISTOR, 2SC2120Y トランジスタ	
Q 10	WA4 – 0225 – 000		1	IC, NJM4558 IC	
Q 11	WA4 – 0225 – 000		1	IC, NJM4558 IC	
Q 12	WA2 – 5321 – 000		1	TRANSISTOR, 2SC4634 – RA トランジスタ	
Q 13	WA2 – 0124 – 000		1	TRANSISTOR, 2SC1815Y トランジスタ	
R 1	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 2	VR1 – 1141 – 392		1	RESISTOR, 3.9KOHM, 1/4W テイコウ	
R 3	VR1 – 1141 – 392		1	RESISTOR, 3.9KOHM, 1/4W テイコウ	
R 4	VR1 – 1141 – 221		1	RESISTOR, 220 OHM, 1/4W テイコウ	
R 5	VR1 – 1141 – 180		1	RESISTOR, 18 テイコウ	
R 6	VR9 – 5077 – 000		1	RESISTOR, 0.47 OHM 1W テイコウ	
R 8	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 9	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 10	VR1 – 1141 – 102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R 11	VR1 – 1141 – 102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R 15	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 16	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 18	VR1 – 1141 – 102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R 19	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 20	VR1 – 1141 – 104		1	RESISTOR, 100KOHM, 1/4W テイコウ	
R 22	VR1 – 1141 – 474		1	RESISTOR, 470KOHM, 1/4W テイコウ	
R 23	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
980 – R 24	VR7 – 2344 – 421		1	RESISTOR, 4.42KOHM, 1/4W テイコウ	
R 25	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 26	VR7 – 2342 – 052		1	RESISTOR, 20.5KOHM, 1/4W テイコウ	
R 29	VR1 – 1141 – 225		1	RESISTOR, 2.2MOHM, 1/4W テイコウ	
R 30	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R 31	VR1 – 1141 – 479		1	RESISTOR, 4.7 OHM, 1/4W テイコウ	
R 32	VR7 – 2343 – 832		1	RESISTOR, 38.3KOHM, 1/4W テイコウ	
R 33	VR1 – 1141 – 471		1	RESISTOR, 470 OHM, 1/4W テイコウ	
R 34	VR5 – 2511 – 004		1	RESISTOR, 1MOHM, 1/4W テイコウ	
R 35	VR5 – 2511 – 004		1	RESISTOR, 1MOHM, 1/4W テイコウ	
R 36	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 37	VR1 – 1141 – 102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R 38	VR1 – 1141 – 102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R 39	VR5 – 0043 – 011		1	RESISTOR, 3.01KOHM, 1/4W テイコウ	
R 40	VR7 – 2342 – 371		1	RESISTOR, 2.37KOHM, 1/4W テイコウ	
R 41	VR1 – 1141 – 332		1	RESISTOR, 3.3KOHM, 1/4W テイコウ	
R 42	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R 43	VR7 – 2343 – 832		1	RESISTOR, 38.3KOHM, 1/4W テイコウ	
R 44	VR1 – 1141 – 474		1	RESISTOR, 470KOHM, 1/4W テイコウ	
R 45	VR1 – 1141 – 229		1	RESISTOR, 2.2 OHM, 1/4W テイコウ	
R 46	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 47	VR5 – 6870 – 100		1	RESISTOR, 10 OHM, 1/4W テイコウ	
R 49	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R 50	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R 51	VR1 – 1141 – 474		1	RESISTOR, 470KOHM, 1/4W テイコウ	
R 52	VR1 – 1141 – 332		1	RESISTOR, 3.3KOHM, 1/4W テイコウ	
R 53	VR1 – 1141 – 229		1	RESISTOR, 2.2 OHM, 1/4W テイコウ	
R 54	VR5 – 6870 – 100		1	RESISTOR, 10 OHM, 1/4W テイコウ	
R 55	VR5 – 6870 – 100		1	RESISTOR, 10 OHM, 1/4W テイコウ	
R 57	VR7 – 2343 – 092		1	RESISTOR, 30.9KOHM, 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
980 – R 58	VR7 – 2342 – 051		1	RESISTOR, 2.05KOHM, 1/4W テイコウ	
R 59	VR5 – 0043 – 011		1	RESISTOR, 3.01KOHM, 1/4W テイコウ	
R 60	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R 61	VR1 – 1141 – 562		1	RESISTOR, 5.6KOHM, 1/4W テイコウ	
R 63	VR5 – 1010 – 104		1	RESISTOR, 100KOHM, 1/2W テイコウ	
R 64	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R 65	VR1 – 1141 – 225		1	RESISTOR, 2.2MOHM, 1/4W テイコウ	
R 66	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R 68	VR1 – 1141 – 515		1	RESISTOR, 5.1MOHM, 1/4W テイコウ	
R 69	VR1 – 1141 – 229		1	RESISTOR, 2.2 OHM, 1/4W テイコウ	
R 70	VR1 – 1141 – 515		1	RESISTOR, 5.1MOHM, 1/4W テイコウ	
R 74	VR1 – 1141 – 471		1	RESISTOR, 470 OHM, 1/4W テイコウ	
R 90	VR1 – 1141 – 105		1	RESISTOR, 1MOHM, 1/4W テイコウ	
R 91	FH4 – 9072 – 000		1	RESISTOR ARRAY テイコウ アレイ	
R 92	VR5 – 2513 – 324		1	RESISTOR, 3.32MOHM 1/4W テイコウ	
R 93	VR5 – 2513 – 324		1	RESISTOR, 3.32MOHM 1/4W テイコウ	
R 94	VR5 – 2513 – 324		1	RESISTOR, 3.32MOHM 1/4W テイコウ	
R 96	VR7 – 2343 – 323		1	RESISTOR, 332KOHM, 1/4W テイコウ	
R 97	VR5 – 2511 – 103		1	RESISTOR, 110KOHM, 1/4W テイコウ	
R 98	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R 99	VR1 – 1141 – 104		1	RESISTOR, 100KOHM, 1/4W テイコウ	
R100	VR1 – 1141 – 104		1	RESISTOR, 100KOHM, 1/4W テイコウ	
R101	VR1 – 1141 – 104		1	RESISTOR, 100KOHM, 1/4W テイコウ	
R102	VR1 – 1141 – 203		1	RESISTOR, 20KOHM, 1/4W テイコウ	
R103	VR1 – 1141 – 203		1	RESISTOR, 20KOHM, 1/4W テイコウ	
R104	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R105	VR1 – 1141 – 470		1	RESISTOR, 47 OHM, 1/4W テイコウ	
R106	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R107	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R108	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
980 – R109	VR1 – 1141 – 752		1	RESISTOR, 7.5KOHM, 1/4W テイコウ	
R110	VR1 – 1141 – 202		1	RESISTOR, 2KOHM, 1/4W テイコウ	
R113	VR1 – 1141 – 185		1	RESISTOR, 1.8MOHM, 1/4W テイコウ	
R114	VR1 – 1141 – 185		1	RESISTOR, 1.8MOHM, 1/4W テイコウ	
R115	VR1 – 1141 – 185		1	RESISTOR, 1.8MOHM, 1/4W テイコウ	
R116	VR1 – 1141 – 203		1	RESISTOR, 20KOHM, 1/4W テイコウ	
R117	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R118	VR1 – 1141 – 104		1	RESISTOR, 100KOHM, 1/4W テイコウ	
R119	VR7 – 2341 – 822		1	RESISTOR, 18.2KOHM, 1/4W テイコウ	
R120	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R121	FH4 – 9056 – 000		1	RESISTOR ARRAY, 1M/100KOHM テイコウ アレイ	
R122	FH4 – 9055 – 000		1	RESISTOR, ARRAY, 4.7M, 150KOHM テイコウ アレイ	
R123	VR7 – 2341 – 004		1	RESISTOR, 1MOHM 1/4W テイコウ	
R124	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R125	VR1 – 1141 – 203		1	RESISTOR, 20KOHM, 1/4W テイコウ	
R126	VR1 – 1141 – 113		1	RESISTOR, 11KOHM, 1/4W テイコウ	
R127	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R128	VR1 – 1141 – 104		1	RESISTOR, 100KOHM, 1/4W テイコウ	
R129	VR7 – 2341 – 004		1	RESISTOR, 1MOHM 1/4W テイコウ	
R130	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R140	VR1 – 1141 – 154		1	RESISTOR, 15KOHM, 1/4W テイコウ	
R145	VR1 – 1141 – 203		1	RESISTOR, 20KOHM, 1/4W テイコウ	
R147	VR1 – 1141 – 105		1	RESISTOR, 1MOHM, 1/4W テイコウ	
R148	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R149	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R150	VR1 – 1141 – 202		1	RESISTOR, 2KOHM, 1/4W テイコウ	
SSW1	WS1 – 0421 – 000		1	CONNECTOR, FEMALE コネクタ (メス)	
SW 1	VS1 – 0477 – 006		1	DIP SWITCH DIP スイッチ	
T 1	FH3 – 0575 – 000		1	TRANSFORMER トランス	
T 2	FH3 – 5207 – 000		1	TRANSFORMER トランス	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
980 – T 3	FH3 – 0532 – 000		1	TRANSFORMER, 670KVA トランス	
T 4	FH3 – 0611 – 000		1	TRANSFORMER, 670KVA トランス	
T 5	FH3 – 0576 – 000		1	TRANSFORMER トランス	
T 6	FH3 – 8017 – 000		1	TRANSFORMER トランス	
W 1	FF2 – 0001 – 000		1	CABLE, GND GND ケーブル	
ZD 1	WA1 – 0872 – 000		1	DIODE, ZENER, HZ18 – 2 ツエナー ダイオード	
ZD 2	WA1 – 0872 – 000		1	DIODE, ZENER, HZ18 – 2 ツエナー ダイオード	
ZD 3	WA1 – 0209 – 000		1	DIODE, ZENER, HZ5C – 1 ツエナー ダイオード	

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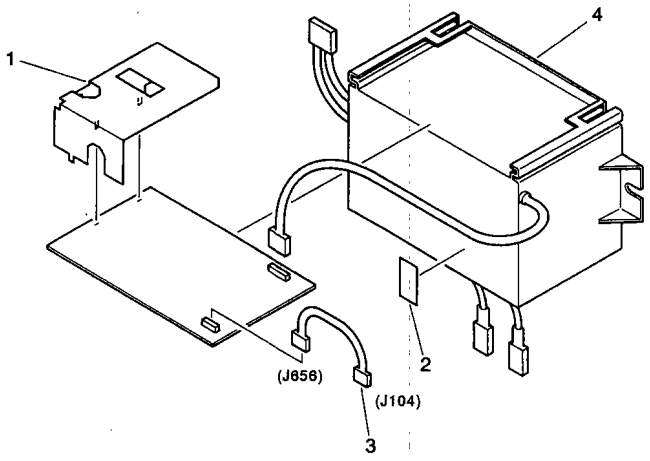
FIGURE 981 H.V. TRANSFORMER ASSEMBLY AC
高圧トランス（AC）



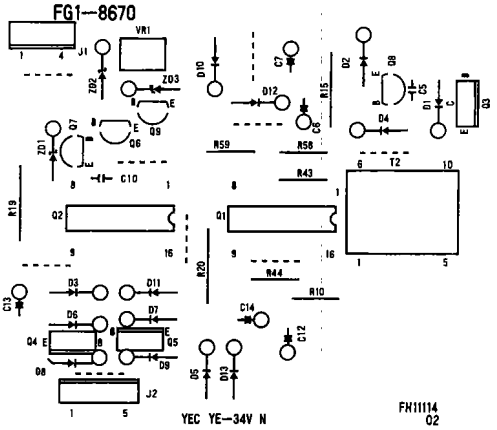


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
981 –	FG5 – 1344 – 040		1	HV TRANSFORMER ASSEMBLY AC コウアツ トランス (AC)	
1	FA5 – 7191 – 000		1	HEATSINK ヒートシンク	
2	FS3 – 8377 – 000		1	LABEL, "WARNING, HIGH VOLTAGE" コウアツ チユウイ メイハン	
3	FF2 – 1455 – 000		1	CABLE, AC AC ソクセン	
4	FH3 – 0591 – 030		1	TRANSFORMER トランス	
C 1	VC5 – 1040 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C 2	VC5 – 1040 – 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C 3	VC5 – 1040 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C 4	VC5 – 1040 – 102		1	CAPACITOR, 1000PF, 50V コンデンサ	
C 5	VC5 – 5980 – 102		1	CAPACITOR, 1000PF, 100V コンデンサ	
C 6	VC6 – 3310 – 107		1	CAPACITOR, 100UF, 35V コンデンサ	
C 7	VC6 – 3310 – 337		1	CAPACITOR, 330UF, 35V コンデンサ	
C 8	VC5 – 1040 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C 9	VC5 – 1040 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C 10	VC9 – 1600 – 000		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C 11	VC5 – 1040 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C 12	VC7 – 4900 – 105		1	CAPACITOR, 10UF, 50V コンデンサ	
C 13	VC6 – 3760 – 476		1	CAPACITOR, 47UF, 50V コンデンサ	
C 14	VC7 – 4900 – 105		1	CAPACITOR, 10UF, 50V コンデンサ	
C 15	VC5 – 1040 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C 16	VC5 – 1040 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C 17	VC5 – 1040 – 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C 18	VC5 – 1040 – 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C 19	VC5 – 4100 – 101		1	CAPACITOR, 100PF, 50V コンデンサ	
C 20	VC5 – 1040 – 103		1	CAPACITOR, 0.01UF, 50V コンデンサ	
C 21	VC5 – 1040 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
C 22	VC5 – 1040 – 104		1	CAPACITOR, 0.1UF, 50V コンデンサ	
D 1	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 2	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 3	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
981 – D 4	WA1 – 1086 – 000		1	DIODE, RK – 16 ダイオード	
D 5	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 6	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 7	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 8	WA1 – 0301 – 000		1	DIODE, EM – 1Z ダイオード	
D 9	WA1 – 0301 – 000		1	DIODE, EM – 1Z ダイオード	
D 10	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 11	WA1 – 0178 – 000		1	DIODE, 1SS81 ダイオード	
D 12	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D 13	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
J 1	FF2 – 1455 – 000		1	CABLE, AC AC ソクセン	
J 2	WS3 – 0422 – 000		1	PIN ASSEMBLY, 5P, W ピン アセンブリ	
Q 1	WA4 – 0452 – 000		1	IC, UPC494C IC	
Q 2	WA4 – 0452 – 000		1	IC, UPC494C IC	
Q 3	WA2 – 0568 – 000		1	TRANSISTOR, 2SC3258 トランジスタ	
Q 4	WA2 – 0438 – 000		1	TRANSISTOR, 2SC1986 トランジスタ	
Q 5	WA2 – 0438 – 000		1	TRANSISTOR, 2SC1986 トランジスタ	
Q 6	WA2 – 0796 – 000		1	TRANSISTOR, RN1201 トランジスタ	
Q 7	WA2 – 0772 – 000		1	TRANSISTOR, RN1202 トランジスタ	
Q 8	WA2 – 0036 – 000		1	TRANSISTOR, 2SC2120Y トランジスタ	
Q 9	WA2 – 0772 – 000		1	TRANSISTOR, RN1202 トランジスタ	
R 1	VR5 – 0989 – 531		1	RESISTOR, 9.53KOHM, 1/8W テイコウ	
R 2	VR5 – 0985 – 761		1	RESISTOR, 5.76KOHM, 1/8W テイコウ	
R 3	VR5 – 0983 – 242		1	RESISTOR, 324KOHM, 1/8W テイコウ	
R 4	VV1 – 1188 – 152		1	RESISTOR, 1.5KOHM, 1/8W テイコウ	
R 5	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 6	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 7	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 8	VV1 – 1188 – 470		1	RESISTOR, 470KOHM, 1/8W テイコウ	
R 9	VV1 – 1188 – 225		1	RESISTOR, 2.2MOHM, 1/8W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
981 – R 10	VR1 – 1141 – 681		1	RESISTOR, 680 OHM 1/4W テイコウ	
R 11	VV1 – 1188 – 471		1	RESISTOR, 470 OHM, 1/8W テイコウ	
R 12	VR5 – 0982 – 002		1	RESISTOR, 20KOHM, 1/8W テイコウ	
R 13	VV1 – 1188 – 100		1	RESISTOR, 10 OHM, 1/8W テイコウ	
R 14	VV1 – 1188 – 102		1	RESISTOR, 1KOHM, 1/8W テイコウ	
R 15	VR5 – 6020 – 109		1	RESISTOR, 1 OHM, 2W テイコウ	
R 16	VV1 – 1188 – 103		1	RESISTOR, 10KOHM, 1/8W テイコウ	
R 17	VV1 – 1188 – 911		1	RESISTOR, 910 OHM, 1/8W テイコウ	
R 18	VV1 – 1188 – 911		1	RESISTOR, 910 OHM, 1/8W テイコウ	
R 19	VR5 – 6020 – 109		1	RESISTOR, 1 OHM, 2W テイコウ	
R 20	VR5 – 6020 – 180		1	RESISTOR, 18 OHM, 2W テイコウ	
R 21	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 22	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 23	VV1 – 1188 – 470		1	RESISTOR, 470KOHM, 1/8W テイコウ	
R 24	VV1 – 1188 – 911		1	RESISTOR, 910 OHM, 1/8W テイコウ	
R 25	VV1 – 1188 – 473		1	RESISTOR, 47KOHM, 1/8W テイコウ	
R 26	VV1 – 1188 – 222		1	RESISTOR, 2.2KOHM, 1/8W テイコウ	
R 27	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 28	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 29	VR5 – 0981 – 303		1	RESISTOR, 130KOHM, 1/8W テイコウ	
R 30	VV1 – 1188 – 473		1	RESISTOR, 47KOHM, 1/8W テイコウ	
R 31	VV1 – 1188 – 101		1	RESISTOR, 100 OHM, 1/8W テイコウ	
R 32	VV1 – 1188 – 102		1	RESISTOR, 1KOHM, 1/8W テイコウ	
R 33	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 34	VR5 – 0981 – 001		1	RESISTOR, 1KOHM, 1/8W テイコウ	
R 35	VV1 – 1188 – 103		1	RESISTOR, 10KOHM, 1/8W テイコウ	
R 36	VV1 – 1188 – 102		1	RESISTOR, 1KOHM, 1/8W テイコウ	
R 37	VV1 – 1188 – 561		1	RESISTOR, 560 OHM, 1/8W テイコウ	
R 38	VV1 – 1188 – 561		1	RESISTOR, 560 OHM, 1/8W テイコウ	
R 39	VV1 – 1188 – 105		1	RESISTOR, 1MOHM, 1/8W テイコウ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
981 – R 40	VV1 – 1188 – 103		1	RESISTOR, 10KOHM, 1/8W テイコウ	
R 41	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 42	VV1 – 1188 – 225		1	RESISTOR, 2.2MOHM, 1/8W テイコウ	
R 43	VR1 – 1141 – 243		1	RESISTOR, 24KOHM, 1/4W テイコウ	
R 44	VR1 – 1141 – 202		1	RESISTOR, 2KOHM, 1/4W テイコウ	
R 45	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 46	VV1 – 1188 – 101		1	RESISTOR, 100 OHM, 1/8W テイコウ	
R 47	VV1 – 1188 – 101		1	RESISTOR, 100 OHM, 1/8W テイコウ	
R 48	VV1 – 1188 – 101		1	RESISTOR, 100 OHM, 1/8W テイコウ	
R 49	VV1 – 1188 – 101		1	RESISTOR, 100 OHM, 1/8W テイコウ	
R 50	VV1 – 1188 – 101		1	RESISTOR, 100 OHM, 1/8W テイコウ	
R 51	VV1 – 1188 – 101		1	RESISTOR, 100 OHM, 1/8W テイコウ	
R 52	VV1 – 1188 – 101		1	RESISTOR, 100 OHM, 1/8W テイコウ	
R 53	VV1 – 1188 – 101		1	RESISTOR, 100 OHM, 1/8W テイコウ	
R 54	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 55	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 56	VV1 – 1188 – 303		1	RESISTOR, 30KOHM, 1/8W テイコウ	
R 57	VV1 – 1188 – 472		1	RESISTOR, 4.7KOHM, 1/8W テイコウ	
R 58	VR1 – 1141 – 229		1	RESISTOR, 2.2 OHM, 1/4W テイコウ	
R 59	VR1 – 1141 – 229		1	RESISTOR, 2.2 OHM, 1/4W テイコウ	
T 1	FH3 – 0515 – 000		1	TRANSFORMER トランス	
T 2	FH3 – 0591 – 030		1	TRANSFORMER トランス	
VR 1	VR5 – 7710 – 103		1	RESISTOR, VARIABLE テイコウ	
ZD 1	WA1 – 1091 – 000		1	DIODE, AW01 – 08 ダイオード	
ZD 2	WA1 – 0207 – 000		1	DIODE, ZENER, HZ20 – 2 ツエナー ダイオード	
ZD 3	WA1 – 0074 – 000		1	DIODE, ZENER, HZ24 – 2 ツエナー ダイオード	

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FIGURE B LIST OF CONNECTORS(1/2)
コネクター一覧 (1/2)

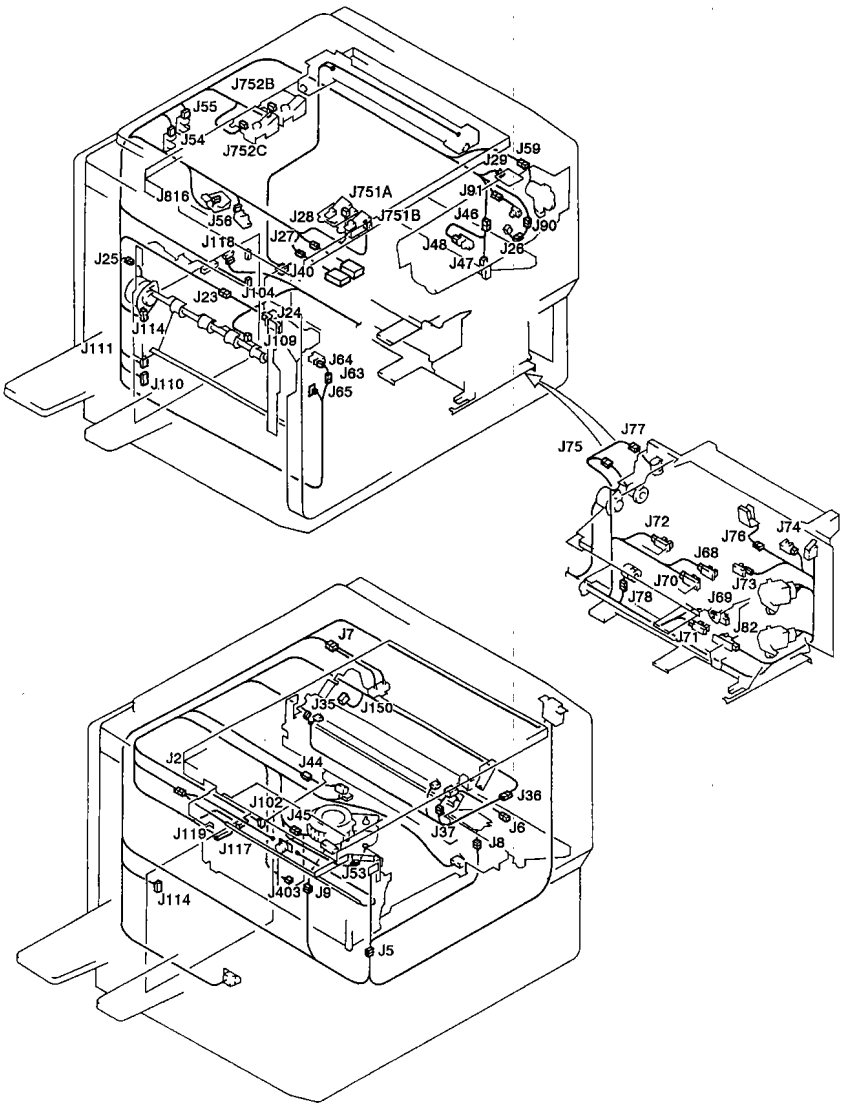

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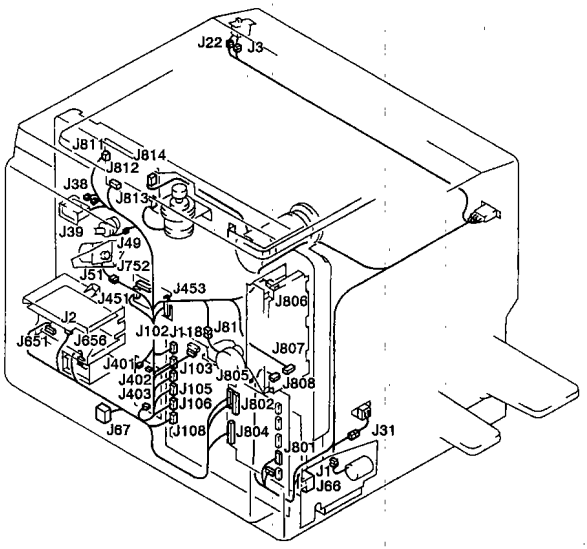
FIGURE B LIST OF CONNECTORS(2/2)
コネクター覧 (2/2)



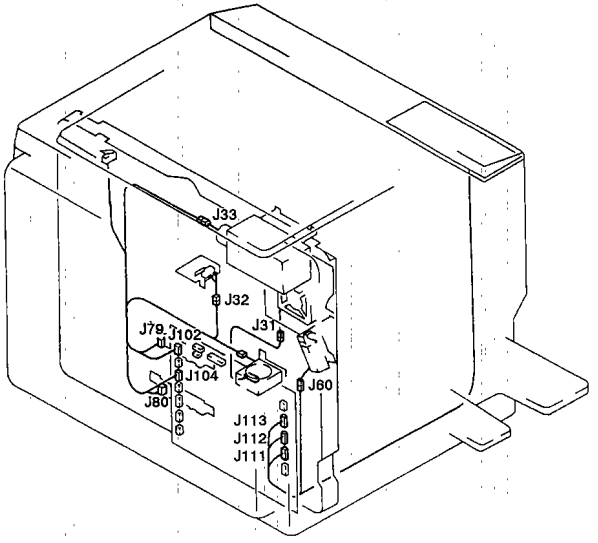


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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
B –	NPN		RF	LIST OF CONNECTORS コネクタ イチラン	
J 1	NPN			NOISE FILTER ノイズ フイルタ	LF1
	WS4 – 0059 – 000		1	CONNECTOR, 2P, MALE コネクタ (オス)	
	WS4 – 0075 – 000		2	PIN, CONTACT, 14 – 20AWG ピン コンタクト	
J 2	NPN			FIXING HEATER テイチヤク ヒータ	H1
	WS4 – 0060 – 000		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS4 – 0073 – 000		2	SOCKET, CONTACT, 14 – 20AWG ソケット コンタクト	
J 3	NPN			MAIN SWITCH メイン スイツチ	SW1
J 4	NPN			HALOGEN LAMP ゲンコウ シヨウメイ ランプ	LA1
J 5	VS4 – 0001 – 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
	VS4 – 0002 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS4 – 0218 – 000		2	SOCKET, CONTACT, 22 – 26AWG ソケット コンタクト	
	WS4 – 0220 – 000		2	PIN CONTACT, 22 – 26AWG ピン コンタクト	
J 6	VS4 – 0001 – 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
	VS4 – 0002 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS4 – 0218 – 000		2	SOCKET, CONTACT, 22 – 26AWG ソケット コンタクト	
	WS4 – 0220 – 000		2	PIN CONTACT, 22 – 26AWG ピン コンタクト	
J 7	VS4 – 0001 – 002		1	CONNECTOR, 2P, MALE コネクタ (オス)	
	VS4 – 0002 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS4 – 0218 – 000		2	SOCKET, CONTACT, 22 – 26AWG ソケット コンタクト	
	WS4 – 0220 – 000		2	PIN CONTACT, 22 – 26AWG ピン コンタクト	
J 8	NPN			DRUM HEATER UNIT CABLE ドラム ヒータ ユニット ソクセン	R3
	VS4 – 0002 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS4 – 0218 – 000		2	SOCKET, CONTACT, 22 – 26AWG ソケット コンタクト	
J 9	NPN			PLATE HEATER プレート ヒータ	R2
	VS3 – 0053 – 002		1	CONNECTOR, 2P, FEMALE コネクタ	
	WS4 – 0218 – 000		2	SOCKET, CONTACT, 22 – 26AWG ソケット コンタクト	
J 22	NPN			MAIN SWITCH メイン スイッチ	SW1
	VS3 – 0053 – 002		1	CONNECTOR, 2P, FEMALE コネクタ	
	WS4 – 0218 – 000		2	SOCKET, CONTACT, 22 – 26AWG ソケット コンタクト	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
B – J 23	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	VS4 – 0003 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	WS3 – 5016 – 000		3	PIN CONTACT, 30 – 26AWG ピン コンタクト	
J 24	NPN			PAPER DELIVERY SENSOR ハイシ センサ	Q2
	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 25	NPN			DELIVERY FEEDER MOTOR ハイシ ハンソウ モータ	M7
	WS3 – 0432 – 000		1	CONNECTOR, 6P, FEMALE, BK コネクタ (メス)	
	WS3 – 0469 – 000		6	SOCKET, CONTACT, 26 – 30AWG ソケット コンタクト	
J 26	NPN			TONER SENSOR トナー センサ	Q17
	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 27	NPN			COUNTER 1 カウンタ (1)	CNT1
	WS3 – 0430 – 000		1	CONNECTOR, PCB, 4P, FEMALE コネクタ (メス)	
	WS3 – 0469 – 000		4	SOCKET, CONTACT, 26 – 30AWG ソケット コンタクト	
J 28	NPN			COUNTER 2 カウンタ (2)	CNT2
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	WS3 – 0469 – 000		2	SOCKET, CONTACT, 26 – 30AWG ソケット コンタクト	
J 29	VS4 – 0003 – 004		1	CONNECTOR, 4P, FEMALE コネクタ (メス)	
	WS3 – 0429 – 000		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	WS3 – 0469 – 000			SOCKET, CONTACT, 26 – 30AWG ソケット コンタクト	
	WS3 – 5016 – 000		4	PIN CONTACT, 30 – 26AWG ピン コンタクト	
J 29A	VS4 – 0003 – 004		1	CONNECTOR, 4P, FEMALE コネクタ (メス)	
	WS3 – 5016 – 000		4	PIN CONTACT, 30 – 26AWG ピン コンタクト	
J 29B	VS1 – 0192 – 004		1	CONNECTOR, 4P, FEMALE コネクタ (メス)	
J 31	NPN			EXAUST FAN ハイネツ ファン	FM2
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 32	NPN			WASTE TONER SENSING SWITCH ハイトナー ケンチ スイツチ	MS1
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 33	NPN			SCANNER COOLING FAN コウガク レイキヤク ファン	FM1
	VS4 – 0002 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS4 – 0218 – 000		2	SOCKET, CONTACT, 22 – 26AWG ソケット コンタクト	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B← J 34	NPN			COOLING FAN デンゲン レイキヤク フアン	FM4
	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 35	NPN			PRE. COND EXPOSURE LAMP マエ ロコウ ランプ	LA2
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 36	VS1 – 0842 – 006		2	CONNECTOR, 6P, FEMALE コネクタ (メス)	
	VS1 – 5057 – 006		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
J 37	NPN			WIRE CLEANING MOTOR (PRI) タイデンセン セイソウ モータ (1 ジ)	M11
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 38	VS4 – 0001 – 004		1	CONNECTOR, PCB, 4P, MALE コネクタ (オス)	
	VS4 – 0002 – 004		1	CONNECTOR, 4P, FEMALE コネクタ (メス)	
	WS4 – 0218 – 000		4	SOCKET, CONTACT, 22 – 26AWG ソケツト コンタクト	
	WS4 – 0220 – 000		4	PIN CONTACT, 22 – 26AWG ピン コンタクト	
J 44	NPN			WIRE CLEANING MOTOR (PRE/TRA) タイデンセン セイソウ モータ (テンシヤ	M12
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 45	NPN			FEEDER FAN ハンソウ フアン	FM3
	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 46	VS1 – 0582 – 006		1	CONNECTOR, 6P コネクタ	
	VS1 – 0842 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J 47	NPN			PAPER SENSOR (SWITCH – BACK) カミ ケンチ センサ (ヨコレジ)	Q6
	WS3 – 0429 – 000		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	WS3 – 0469 – 000		3	SOCKET, CONTACT, 26 – 30AWG ソケツト コンタクト	
J 48	NPN			PAPER SENSOR (REGIST 1) カミ ケンチ センサ (ダイ 1 レジ)	Q5
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 49	NPN			REGIST ROLLER 1 CLUTCH ダイ 1 レジローラ クラツチ	CL1
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 51	NPN			SWITCH – BACK MOTOR ヨコレジ モータ	M4
	VS1 – 0192 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J 53	NPN			LENS MOTOR レンズ モータ	M3
	VS1 – 0192 – 005		1	CONNECTOR, 5P, FEMALE コネクタ (メス)	
J 54	NPN			SCANNER HOME POSITION コウガク ホームポジシヨン センサ	Q8

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
B – J 54	WS3 – 0429 – 000		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	WS3 – 0469 – 000		3	SOCKET, CONTACT, 26 – 30AWG ソケット コンタクト	
J 55	NPN			DOCUMENT SENSOR ゲンコウ ケンチ センサ	Q9
	WS3 – 0469 – 000		3	SOCKET, CONTACT, 26 – 30AWG ソケット コンタクト	
	WS3 – 0592 – 000		1	CONNECTOR, PCB, 3P, FEMALE コネクタ (メス)	
J 56	NPN			LENS HOME POSITION レンズ ホームポジション センサ	Q7
	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 59	NPN			HOPPER MOTOR ホッパ モータ	M10
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 60	NPN			THERMISTOR サーミスタ	TH1
	VS3 – 0108 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	WS3 – 5016 – 000		3	PIN CONTACT, 30 – 26AWG ピン コンタクト	
J 61	NPN			FIXING ROLLER CLEAN'G SOLENOID テイチヤク クリーナ ソレノイド	SL2
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 63	VS1 – 0842 – 003		2	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	VS1 – 5057 – 003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
J 64	NPN			LOWER FEEDER PAPER SENSING シタ ハンソウ カミ ケンチ (イリグチ)	Q3
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 65	PCB			SURVICE SWITCH サービス スイッチ キバン	
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 67	FH2 – 5820 – 000		24	PIN CONTACT, 22 – 26AWG ピン コンタクト	
	FH2 – 5825 – 000		1	PIN CONTACT, 16 – 20AWG ピン コンタクト	
	FH2 – 5829 – 000		1	CONNECTOR, 27P, FEMALE コネクタ (メス)	
J 68	NPN			CASSETTE PAPER SIZE SENSOR 1 カセット サイズ ケンチ センサ 1	Q10
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 69	NPN			CASSETTE PAPER SIZE SENSOR 2 カセット サイズ ケンチ センサ 2	Q11
	VS3 – 5009 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	WS1 – 5019 – 000		3	SOCKET CONTACT ソケット コンタクト	
J 70	NPN			PAPER LIFTER SENSOR 1 リフタ イチ ケンチ センサ 1	Q12
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
B – J 71	NPN			PAPER LIFTER SENSOR 2 リフタ イチ ケンチ センサ 2	Q13
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 72	NPN			LOWER FEEDER PAPER SENSING シタ ハンソウ カミ ケンチ (デグチ)	Q14
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 73	NPN			REGIST 2 PAPER SENSOR ダイ 2 レジスト カミ ケンチ	Q15
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 74	NPN			MANUAL FEED PAPER SENSING テザシ カミケンチ	Q4
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 75	NPN			PICK – UP CLUTCH キユウシ クラツチ	CL2
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 76	NPN			MANUAL SHUTTER SOLENOID テザシ シヤツタ ソレノイド	SL9
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 77	NPN			REGIST 2 ROLLER SOLENOID ダイ 2 レジローラ ソレノイド	SL8
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 78	NPN			REGIST 3 ROLLER CLUTCH ダイ 3 レジローラ クラツチ	CL4
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 79	PCB			CASSETTE SIZE SENSING 1 カセツト サイズ ケンチ キバン	CST1
	VS1 – 0867 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J 80	PCB			CASSETTE SIZE SENSING 2 カセツト サイズ ケンチ キバン	CST2
	VS1 – 0867 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J 81	NPN			LOWER FEEDER MOTOR シタ ハンソウ モータ	M5
	VS1 – 0192 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J 82	NPN			REGIST 3 FRONT SENSOR ダイ 3 レジスト マエ センサ	Q16
	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 83	VS4 – 0001 – 001		1	CONNECTOR, 1P, MALE コネクタ (オス)	
	WS4 – 0220 – 000		1	PIN CONTACT, 22 – 26AWG ピン コンタクト	
J 84	VS4 – 0002 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS4 – 0218 – 000		1	SOCKET, CONTACT, 22 – 26AWG ソケツト コンタクト	
J 90	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 91	NPN			HOPPER TONER SENSOR ホツパ トナーセンサ	Q18

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
B- J 91	VS1 - 0192 - 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 92	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	VS1 - 0852 - 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	VS1 - 5057 - 003		1	CONNECTOR, SNAP TIGHT チュウケイ コネクタ	
J102	PCB			DC CONTROLLER DC コントローラ	
J102A	VS1 - 0842 - 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J102B	VS1 - 0852 - 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J102H	VS9 - 5007 - 028		1	CONNECTOR, 28P, FEMALE コネクタ (メス)	
J103	PCB			DC CONTROLLER DC コントローラ	
J103A	VS1 - 0842 - 013		1	CONNECTOR, 13P, FEMALE コネクタ (メス)	
J103B	VS1 - 0852 - 013		1	CONNECTOR, 13P, FEMALE コネクタ (メス)	
J103H	VS9 - 5007 - 026		1	CONNECTOR, 26P, FEMALE コネクタ (メス)	
J104	PCB			DC CONTROLLER DC コントローラ	
J104A	VS1 - 0842 - 009		1	CONNECTOR, 9P, FEMALE コネクタ (メス)	
J104B	VS1 - 0852 - 009		1	CONNECTOR, 9P, FEMALE コネクタ (メス)	
J104H	VS9 - 5007 - 018		1	CONNECTOR, 18P, FEMALE コネクタ (メス)	
J105	PCB			DC CONTROLLER DC コントローラ	
	VS3 - 0044 - 008		1	CONNECTOR, 8P, FEMALE コネクタ (メス)	
	WS3 - 0916 - 000		8	SOCKET, CONTACT, 18 - 24AWG ソケット コンタクト	
J106	PCB			DC CONTROLLER DC コントローラ	
	VS3 - 0044 - 004		1	CONNECTOR, PCB, 4P, FEMALE コネクタ (メス)	
	WS3 - 0916 - 000		4	SOCKET, CONTACT, 18 - 24AWG ソケット コンタクト	
J108	PCB			DC CONTROLLER DC コントローラ	
J108A	VS1 - 0842 - 011		1	CONNECTOR, 11P, FEMALE コネクタ (メス)	
J108B	VS1 - 0852 - 011		1	CONNECTOR, 11P, FEMALE コネクタ (メス)	
J108H	VS9 - 5007 - 022		1	CONNECTOR, 22P, FEMALE コネクタ (メス)	
J109	PCB			DC CONTROLLER DC コントローラ	
J109A	VS1 - 0842 - 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J109B	VS1 - 0852 - 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J109H	VS9 - 5007 - 028		1	CONNECTOR, 28P, FEMALE コネクタ (メス)	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
B – J110	PCB			DC CONTROLLER DC コントローラ	
J110A	VS1 – 0842 – 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J110B	VS1 – 0852 – 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J110H	VS9 – 5007 – 028		1	CONNECTOR, 28P, FEMALE コネクタ (メス)	
J111	PCB			DC CONTROLLER DC コントローラ	
J111A	VS1 – 0842 – 011		1	CONNECTOR, 11P, FEMALE コネクタ (メス)	
J111B	VS1 – 0852 – 011		1	CONNECTOR, 11P, FEMALE コネクタ (メス)	
J111H	VS9 – 5007 – 022		1	CONNECTOR, 22P, FEMALE コネクタ (メス)	
J112	PCB			DC CONTROLLER DC コントローラ	
	VS3 – 5008 – 034		1	CONNECTOR, 34P コネクタ	
	WS3 – 1305 – 000		33	SOCKET, CONTACT, 26AWG ソケット コンタクト	
J113	PCB			DC CONTROLLER DC コントローラ	
	VS1 – 0203 – 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J114	PCB			DC CONTROLLER DC コントローラ	
J114A	VS1 – 0842 – 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J114B	VS1 – 0852 – 014		1	CONNECTOR, 14P, FEMALE コネクタ (メス)	
J114H	VS9 – 5007 – 028		1	CONNECTOR, 28P, FEMALE コネクタ (メス)	
J117	PCB			DC CONTROLLER DC コントローラ	
	VS1 – 0842 – 008		1	CONNECTOR, 8P, FEMALE コネクタ (メス)	
J118	NPN			FEEDER MOTOR (LOWER) シタ ハンソウ モータ	M6
	PCB			DC CONTROLLER DC コントローラ	
J119	PCB			DC CONTROLLER DC コントローラ	
	VS3 – 5008 – 034		1	CONNECTOR, 34P コネクタ	
	WS3 – 1305 – 000		32	SOCKET, CONTACT, 26AWG ソケット コンタクト	
J150	VS3 – 5008 – 034		1	CONNECTOR, 34P コネクタ	
J400	VS1 – 0842 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J401	PCB			LAMP REGULATOR ランプ レギュレータ	CVR
	VS3 – 0044 – 004		1	CONNECTOR, PCB, 4P, FEMALE コネクタ (メス)	
	WS3 – 0916 – 000		3	SOCKET, CONTACT, 18 – 24AWG ソケット コンタクト	
J402	PCB			LAMP REGULATOR ランプ レギュレータ	CVR

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
B – J403	PCB			LAMP REGULATOR ランプ レギュレータ	CVR
J451	PCB			FUSE CIRCUIT ヒューズ カイロキバン	
	VS3 – 0044 – 007		1	CONNECTOR, 7P, FEMALE コネクタ (メス)	
	WS3 – 0916 – 000		2	SOCKET, CONTACT, 18 – 24AWG ソケット コンタクト	
J452	PCB			FUSE CIRCUIT ヒューズ カイロキバン	
	VS3 – 0044 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
	WS3 – 0916 – 000		6	SOCKET, CONTACT, 18 – 24AWG ソケット コンタクト	
J453	PCB			FUSE CIRCUIT ヒューズ カイロキバン	
	VS3 – 0044 – 010		1	CONNECTOR, 10P, FEMALE コネクタ (メス)	
	WS3 – 0916 – 000		10	SOCKET, CONTACT, 18 – 24AWG ソケット コンタクト	
J454	PCB			FUSE CIRCUIT ヒューズ カイロキバン	
J651	PCB			HVT – DC HVT – DC	
	VS1 – 0192 – 009		1	CONNECTOR, 9P, FEMALE コネクタ (メス)	
J653	PCB			HVT – DC HVT – DC	
	VS3 – 0044 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
	WS3 – 0916 – 000		1	SOCKET, CONTACT, 18 – 24AWG ソケット コンタクト	
J656	PCB			HVT – AC HVT – AC	
	VS1 – 0192 – 004		1	CONNECTOR, 4P, FEMALE コネクタ (メス)	
J657	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J751A	PCB			DOCUMENT DETECTION 1 ゲンコウ サイズ ケンチ 1	
	VS1 – 0842 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J751B	PCB			DOCUMENT DETECTION 1 ゲンコウ サイズ ケンチ 1	
	VS1 – 0842 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J752B	PCB			DOCUMENT DETECTION 2 ゲンコウ サイズ ケンチ 2	
	VS1 – 0842 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J752C	PCB			DOCUMENT DETECTION 2 ゲンコウ サイズ ケンチ 2	
	VS1 – 0842 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J801	PCB			DC POWER SUPPLY 1 DC デンゲン 1	DCP1
	VS3 – 0044 – 005		1	CONNECTOR, 5P, FEMALE コネクタ (メス)	
	WS3 – 0916 – 000		4	SOCKET, CONTACT, 18 – 24AWG ソケット コンタクト	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
B- J802	PCB			DC POWER SUPPLY 1 DC デンゲン 1	DCP1
	VS3 - 0045 - 009		1	CONNECTOR, 9P, FEMALE コネクタ (メス)	
	WS3 - 0916 - 000		9	SOCKET, CONTACT, 18 - 24AWG ソケット コンタクト	
J804	PCB			DC POWER SUPPLY 1 DC デンゲン 1	DCP1
	VS3 - 0044 - 007		1	CONNECTOR, 7P, FEMALE コネクタ (メス)	
	WS3 - 0916 - 000		5	SOCKET, CONTACT, 18 - 24AWG ソケット コンタクト	
J805	PCB			DC POWER SUPPLY 1 DC デンゲン 1	DCP1
	VS3 - 0044 - 008		1	CONNECTOR, 8P, FEMALE コネクタ (メス)	
	WS3 - 0916 - 000		7	SOCKET, CONTACT, 18 - 24AWG ソケット コンタクト	
J806	PCB			DC POWER SUPPLY 2 DC デンゲン 2	DCP2
	VS3 - 0044 - 002		1	CONNECTOR, PCB, 2P, FEMALE コネクタ (メス)	
	WS3 - 0916 - 000		2	SOCKET, CONTACT, 18 - 24AWG ソケット コンタクト	
J807	PCB			DC POWER SUPPLY 2 DC デンゲン 2	DCP2
	VS3 - 0044 - 004		1	CONNECTOR, PCB, 4P, FEMALE コネクタ (メス)	
	WS3 - 0916 - 000		4	SOCKET, CONTACT, 18 - 24AWG ソケット コンタクト	
J808	PCB			DC POWER SUPPLY 2 DC デンゲン 2	DCP2
J811	PCB			MOTOR DRIVER モータ ドライバ カイロキバン	
	VS3 - 0044 - 007		1	CONNECTOR, 7P, FEMALE コネクタ (メス)	
	WS3 - 0916 - 000		6	SOCKET, CONTACT, 18 - 24AWG ソケット コンタクト	
J812	PCB			MOTOR DRIVER モータ ドライバ カイロキバン	
	VS1 - 0842 - 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J813	NPN			SCANNER MOTOR コウガク モータ	M2
	PCB			MOTOR DRIVER モータ ドライバ カイロキバン	
J814	NPN			MAIN MOTOR メイン モータ	M1
	PCB			MOTOR DRIVER モータ ドライバ カイロキバン	

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CASSETTE FEEDING UNIT-D1

カセットペディスタル-D1

〔F22-6603　　ZDN00001-〕

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FIGURE ZA ASSEMBLY LOCATION DIAGRAM
主要部品配置図

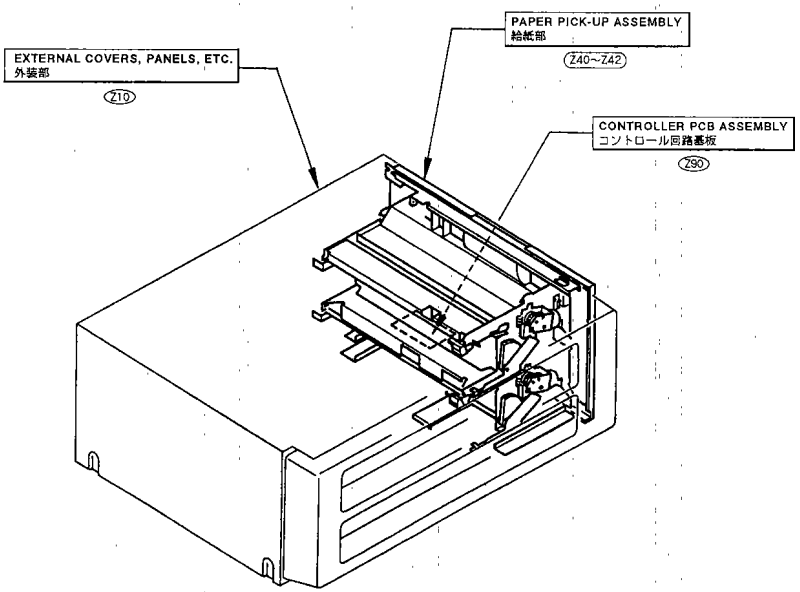

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FIGURE Z10 EXTERNAL COVERS, PANELS, ETC.
外装部

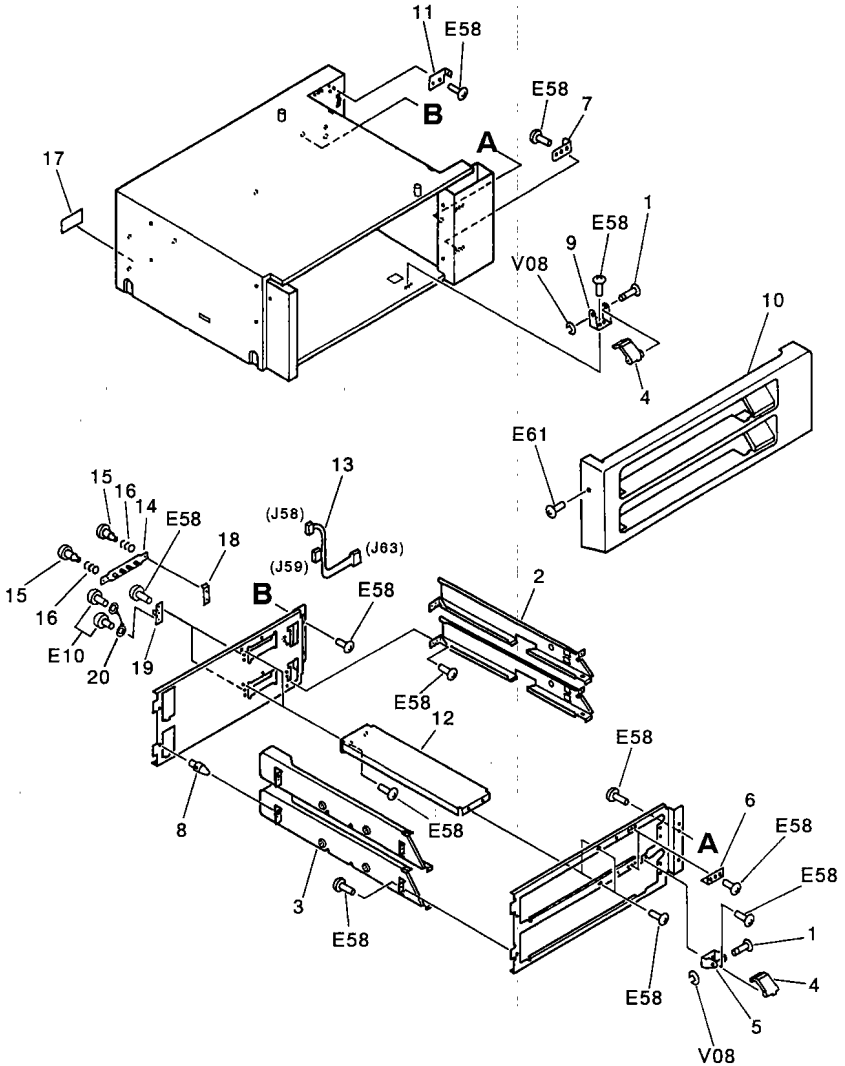

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z10 –	NPN		RF	EXTERNAL COVERS, PANELS, ETC. ガイソウ ブ	
1	FA3 – 8719 – 000		2	ROD サイド キセイ ジク	
2	FB1 – 6135 – 000	N	2	GUIDE, CASSETTE, RIGHT カセット ステー (ミギ)	
3	FB1 – 6136 – 000	N	2	GUIDE, CASSETTE, LEFT カセット ステー (ヒダリ)	
4	FA5 – 3181 – 000		2	ARM, GUIDE RELEASE ガイド カイジヨ アーム	
5	FA5 – 3182 – 000		1	MOUNT, ARM, UPPER アーム ダイ (ウエ)	
6	FA5 – 3184 – 000		2	PLATE, CASSETTE POSITIONING カセット イチ ギメ バン	
7	FA5 – 3460 – 000		2	PLATE, PD GUIDE PD セツチ イタ	
8	FA5 – 3474 – 000		2	PIN イチギメ ピン	
9	FA5 – 3475 – 000		1	PLATE, HOLDER ホルダ	
10	FC1 – 3321 – 000		1	COVER, FRONT マエ カバー	
11	FA5 – 3477 – 000		1	BRACKET, MOUNTING, UPPER REAR トリツケ イタ (ウエ ウシロ)	
12	FA5 – 3478 – 020		2	SUPPORT サポート	
13	FF2 – 0903 – 000		1	CORD コード	
14	FH7 – 6113 – 000		2	PUSH SWITCH ASSEMBLY カセット サイズ ケンチ スイツチ	
15	FS2 – 9002 – 000		4	SCREW, STEPPED, M4 ダン ビス	
16	FS3 – 2044 – 000		4	SPRING, COMPRESSION アツシユク バネ	
17	FC1 – 5144 – 000		1	NAME PLATE メイショウ メイハン	
18	FA9 – 1979 – 000		2	MOUNT, PAPER SIZE SENSING, 1 サイズ ケンチ キダイ (1)	
19	FA9 – 1978 – 000		2	MOUNT, PAPER SIZE SENSING, 2 サイズ ケンチ キダイ (2)	
20	FF9 – 1091 – 020		2	WIRE, GROUNDING アース コード	

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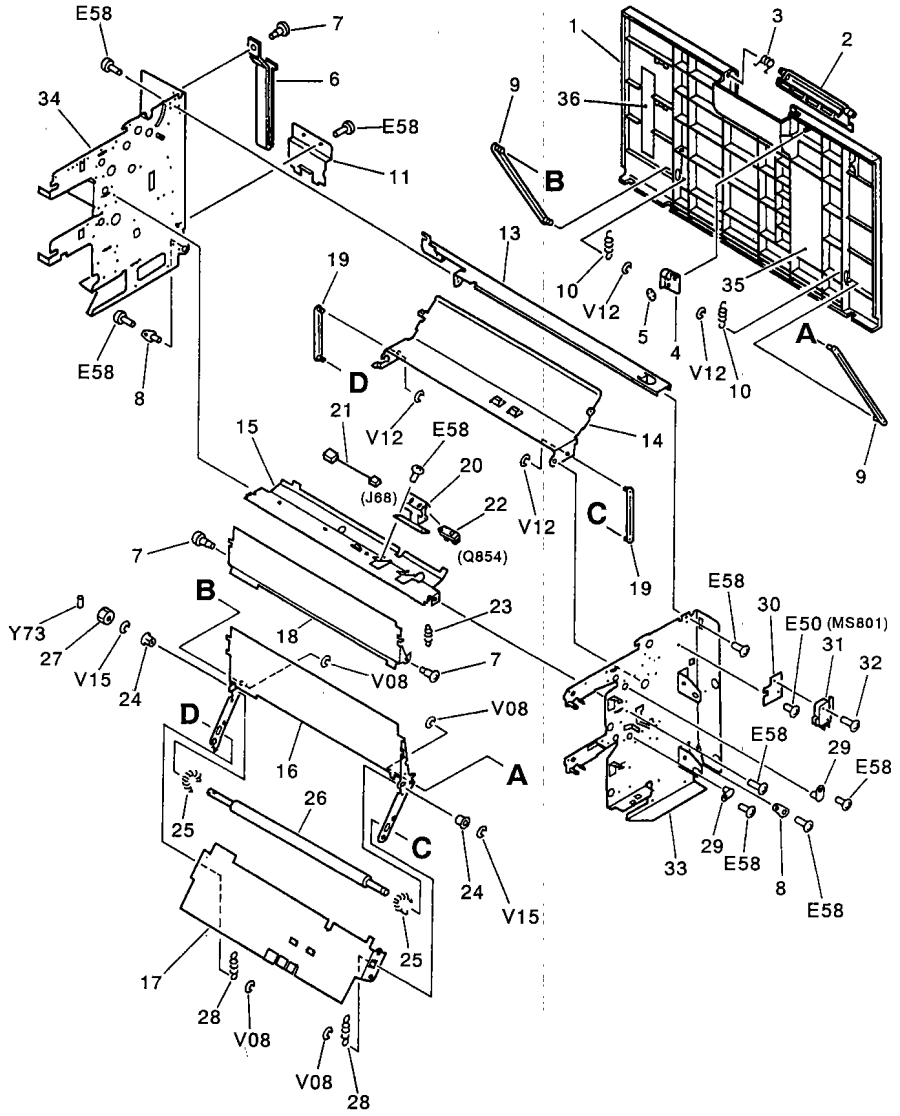
FIGURE Z40 PAPER PICK-UP ASSEMBLY 1
給紙部 1



NOTE: The assembly comes with all the parts shown in Figures Z40, Z41 and Z42.

注 ： このユニットは、 Figure Z40, Z41 と Z42 の全てのパーツで構成されています。

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z40 –	FG2 – 4006 – 090		1	PAPER PICK – UP ASSEMBLY キュウシ ブ	SEE NOTE
1	FC1 – 3325 – 000		1	DOOR, RIGHT ドア (ミギ)	
2	FB1 – 5918 – 000		1	CATCH トツテ	
3	FA5 – 2888 – 020		1	SPRING, TORSION ネジリ バネ	
4	FA5 – 2887 – 000		1	HOLDER, CATCH トツテ ホルダ	
5	XA9 – 0135 – 000		2	NUT, PUSH プツシユ ナツト	
6	FA9 – 2484 – 000		1	STOP, RIGHT LOWER DOOR ミギシタ ササエ テーブ	
7	FS1 – 9076 – 000		3	SCREW, STEPPED, M4 ダンビス	
8	FF2 – 0446 – 000		2	STUD シ ジク	
9	FF2 – 0444 – 000		2	LINK, 2 リンク 2	
10	FS3 – 2015 – 000		2	SPRING, TENSION ヒツパリ バネ	
11	FA5 – 3514 – 000		1	PLATE コネクタ カバー	
13	FA5 – 3484 – 000		1	CROSSMEMBER, RIGHT UPPER ステー (ミギ ウエ)	
14	FA5 – 3486 – 000		1	GUIDE, UPPER ガイド (ウエ)	
15	FA5 – 3487 – 000		1	GUIDE, MIDDLE ガイド (ナカ)	
16	FA5 – 3488 – 000		1	GUIDE, LOWER, I ガイドI (シタ)	
17	FA5 – 3489 – 000		1	GUIDE, LOWER, II ガイドII (シタ)	
18	FA5 – 3490 – 000		1	GUIDE カイヘイガイド	
19	FF2 – 0443 – 000		2	LINK, 1 リンク 1	
20	FF2 – 0453 – 000		1	MOUNT, SENSOR ダイ 4 レジスト センサ ダイ	
21	FF2 – 1451 – 000		1	CABLE, REGISTRATION SENSOR レジスト センサ ソクセン	
22	FH7 – 7155 – 000		1	PHOTO – INTERRUPTER フオトインタラプタ	
23	FS3 – 2048 – 000		2	SPRING, TENSION ヒツパリ バネ	
24	FS1 – 1465 – 000		2	BUSHING ブツシング	
25	FS1 – 2370 – 000		2	SPRING, TENSION ヒツパリ バネ	
26	FA5 – 3406 – 000		1	ROLLER, SHAFT ジユウドウ ローラ	
27	FS3 – 0076 – 000		1	GEAR, 16T 16T ギア	
28	FS3 – 2014 – 000		2	SPRING, TENSION ヒツパリ バネ	
29	FA5 – 2839 – 000		2	PLATE, PIN フロート ピン	
30	FA3 – 3898 – 000		1	PLATE, DOOR SWITCH ドア スイツチ ダイ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z40 – 31	WC4 – 0134 – 000		1	MICROSWITCH マイクロ スイツチ	
32	XB1 – 2301 – 409		2	SCREW,MACH.,TRUSS HEAD,M3X14 バインド ネジ	
33	FF2 – 0451 – 000	N	1	PLATE, FRONT マエ ソクバン	
34	FF2 – 0441 – 000	N	1	PLATE, REAR ウシロ ソクバン	
35	FS4 – 8043 – 000		1	LABEL ラベル	
36	FS4 – 8044 – 020		1	LABEL ラベル	

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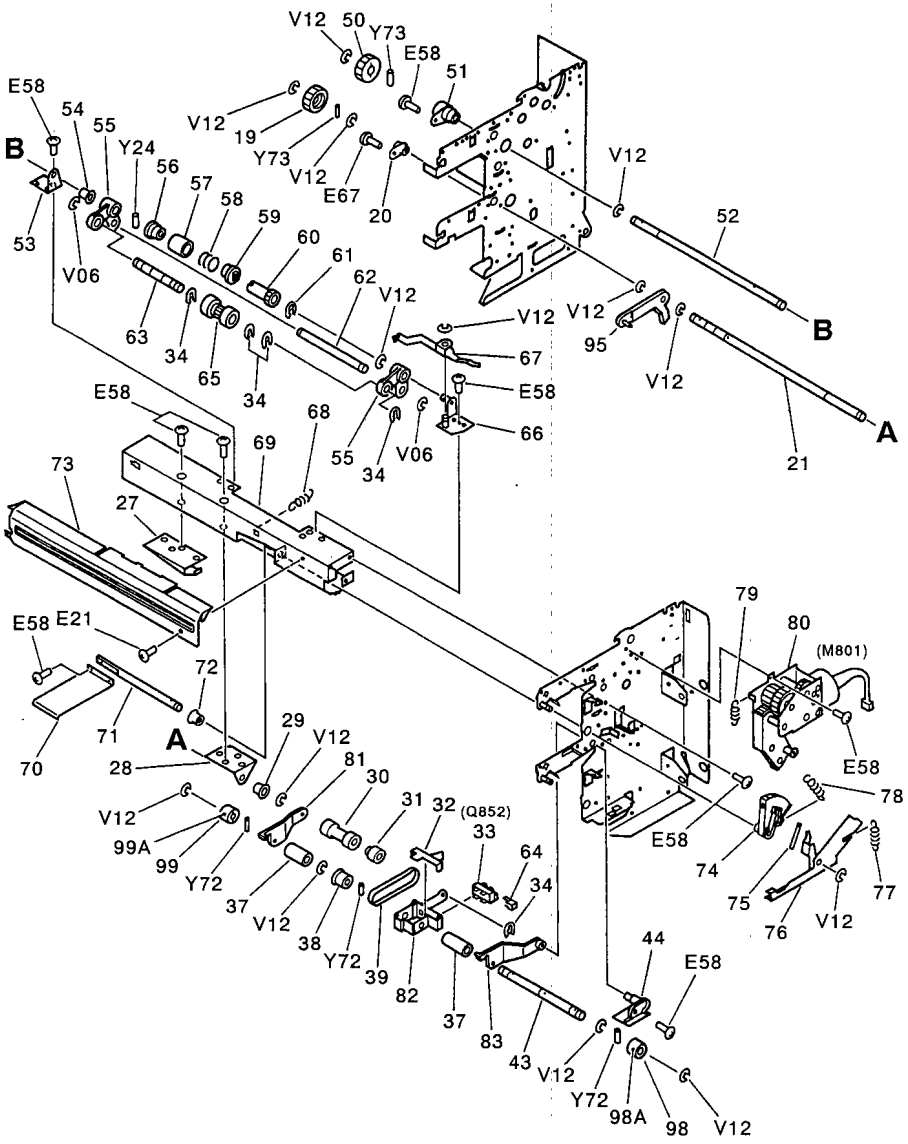
FIGURE Z41 PAPER PICK-UP ASSEMBLY 2 (1/3)
給紙部 2 (1/3)



NOTE: The assembly comes with all the parts shown in Figures Z40, Z41 and Z42.

注 : このユニットは、 Figure Z40, Z41 と Z42 の全てのパーツで構成されています。

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FIGURE Z41 PAPER PICK-UP ASSEMBLY 2 (2/3)
給紙部 2 (2/3)

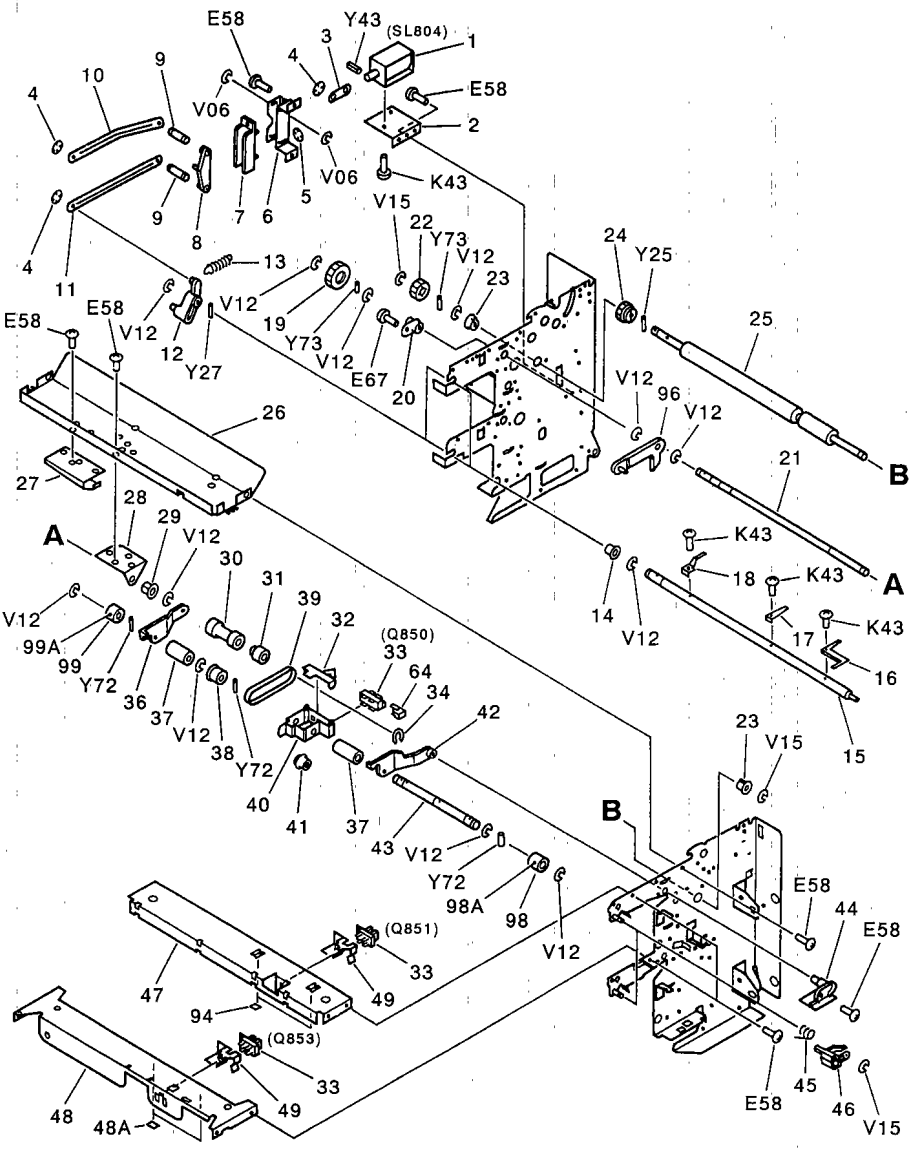

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FIGURE Z41 PAPER PICK-UP ASSEMBLY 2 (3/3)
給紙部 2 (3/3)

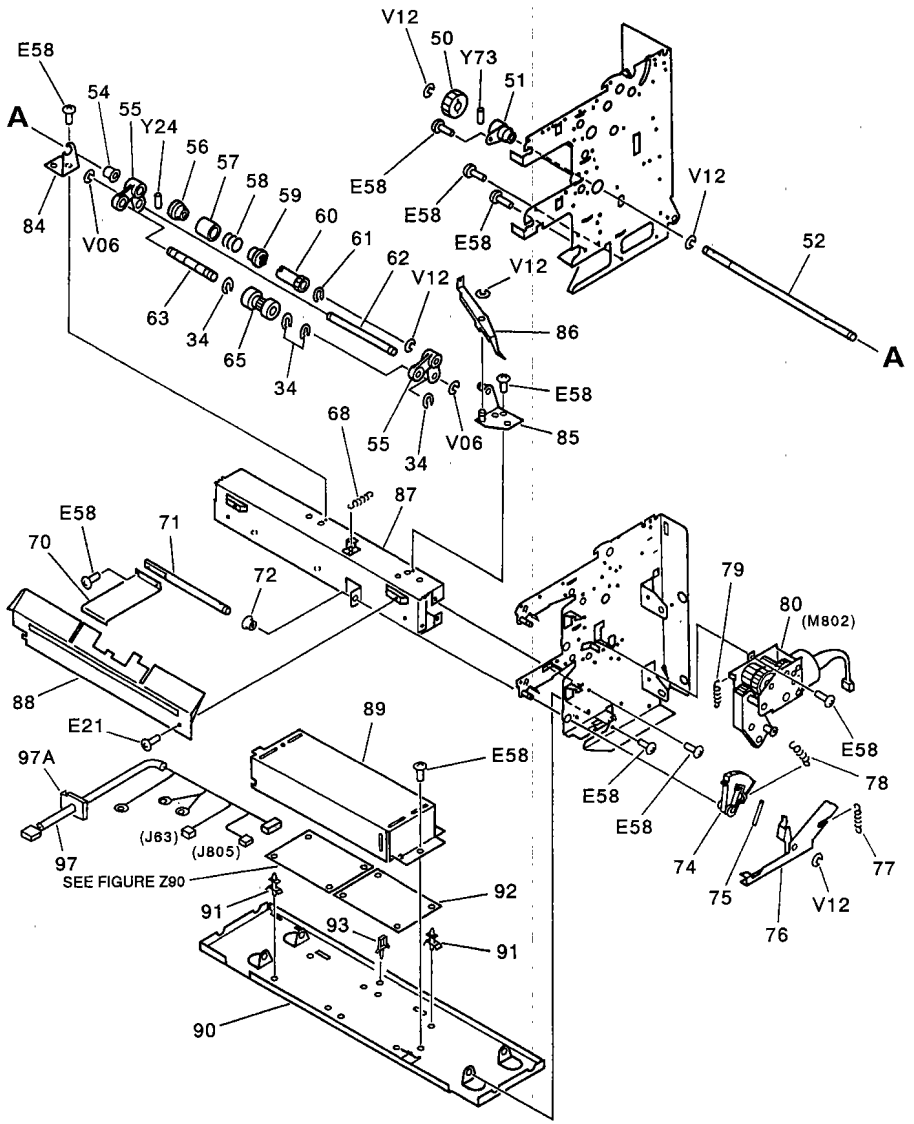

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z41 –	FG2 – 4006 – 090		1	PAPER PICK – UP ASSEMBLY キュウシ ブ	SEE NOTE
1	FH7 – 5264 – 000		2	SOLENOID, DC24V ソレノイド	
2	FA5 – 3499 – 000		1	PLATE, SOLENOID MOUNT, I ソレノイド ダイ (I)	
3	FA5 – 2916 – 000		1	ARM, LINK ソレノイド リンク	
4	XD9 – 0037 – 000		3	RING, SE SE リング	
5	XA9 – 0135 – 000		2	NUT, PUSH プッシュ ナット	
6	FA5 – 3501 – 000		1	PLATE, SELECT センタク キダイ	
7	FA5 – 2914 – 000		1	SLIDER スライダ	
8	FA5 – 2915 – 000		1	ARM, LINK センター リンク	
9	FA5 – 2919 – 000		2	SHAFT センタク リスク ジク	
10	FA5 – 2917 – 000		1	ARM, LINK, UPPER ウエ リンク	
11	FA5 – 2918 – 000		1	ARM, LINK, LOWER シタ リンク	
12	FA5 – 2873 – 000		2	ARM,REL., PICK – UP ROLLER, REAR キユウシ ローラ カイジヨアーム(ウシロ)	
13	FS3 – 2011 – 000		2	SPRING, TENSION ヒツパリ バネ	
14	FS1 – 1206 – 000		2	BUSHING ブツシング	
15	FA5 – 3505 – 000		2	SHAFT, PICK – UP RELEASE, A ピツクアツプ カイジヨ ジク (A)	
16	FA5 – 2874 – 000		2	PLATE,REL.,PICK – UP ROL., FRONT キユウシ ローラ カイジヨ パン(マエ)	
17	FA5 – 2875 – 000		2	PLATE,REL., PICK – UP ROL., REAR キユウシ ローラ カイジヨパン(ウシロ)	
18	FA5 – 2930 – 000		1	ARM, RELEASE オク カイジヨ アーム	
19	FS3 – 0029 – 000		2	GEAR, 27T 27T ギア	
20	FS2 – 1006 – 000		2	BUSHING ジク ウケ	
21	FA5 – 3507 – 000		2	SHAFT, B ジク (B)	
22	FS1 – 0422 – 000		1	GEAR, 20T 20T ギア	
23	FS1 – 1202 – 000		2	BUSHING ブツシング	
24	FS3 – 0077 – 000		1	GEAR, 24T 24T ギア	
25	FA5 – 3502 – 000		1	REGISTRATION ROLLER 4, UPPER ダイ 4 レジストローラ (ウエ)	
26	FA5 – 3483 – 000		1	BASE, CASSETTE HOLDER, UPPER ステー (ウエ)	
27	FA5 – 2844 – 000		2	GUIDE PLATE, REAR ガイド (オク)	
28	FA5 – 2847 – 000		2	PLATE, FEED ROLLER ハンソウ ローラ ジク シバン	
29	FS2 – 1005 – 000		2	BUSHING ブッシング	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z41 – 30	FA5 – 2933 – 020		2	ROLLER, FEEDER ハンソウ ローラ	
31	FS2 – 3003 – 000		2	PULLEY, ONE WAY ワンウエイ プーリ	
32	FA5 – 2853 – 000		2	ARM, PAPER SENSING カミ ケンチ アーム	
33	FH7 – 7155 – 000		4	PHOTO – INTERRUPTER フオトインタラプタ	
34	FA3 – 8727 – 000		10	RETAINING RING トメ ワ	
36	FA5 – 2851 – 000		1	ARM,PICK – UP ROLLER, UPPER REAR キユウシ ローラ アーム (ウエ ウシロ)	
37	FS2 – 6001 – 000		4	SPACER, WEIGHT ウエイト カラー	
38	FS2 – 3004 – 000		2	PULLEY, PICK – UP ROLLER キユウシ プーリ	
39	XF9 – 0094 – 000		2	BELT, TIMING, 63T タイミング ベルト	
40	FA5 – 2852 – 000		1	GUIDE, PAPER SENSING, UPPER カミ ケンチ ガイド (ウエ)	
41	FS2 – 6003 – 000		2	ROLLER ケンチ コロ	
42	FA5 – 2850 – 000		1	ARM,PICK – UP ROLLER,UPPER FRONT キユウシ ローラ アーム (ウエ マエ)	
43	FA5 – 2849 – 000		2	SHAFT, PICK – UP ROLLER キユウシ ローラ ジク	
44	FA5 – 2922 – 000		2	SHAFT, A A シジク	
45	FA5 – 2878 – 000		2	SPRING, TORSION ネジリ バネ	
46	FA5 – 2872 – 000		2	ARM,REL.,PICK – UP ROLLER, FRONT キユウシ ローラ カイジヨ アーム (マエ)	
47	FA5 – 3485 – 000		1	PLATE, SENSOR MOUNTING, UPPER センサ キダイ (ウエ)	
48	FF9 – 1093 – 050		1	PLATE, SENSOR MOUNTING, LOWER センサ キダイ (シタ)	
48A	FA5 – 2931 – 000		2	PAD パツド	
49	FA5 – 2856 – 020		2	GUIDE, SENSOR センサ ガイド	
50	FS3 – 0101 – 000		2	GEAR, 26T 26T ギア	
51	FS2 – 1013 – 000		2	BUSHING ジク ウケ	
52	FA5 – 3508 – 000		2	SHAFT, C' ジク (C')	
53	FA5 – 2845 – 000		1	PLATE, SEP.ROLLER, REAR, UPPER ウエ ブンリ ジク シバン (ウシロ)	
54	FS1 – 1187 – 000		2	BUSHING ブッシング	
55	FA5 – 2868 – 000		4	ARM, SEPARATION ROLLER ブンリ ローラ アーム	
56	FA5 – 2865 – 000		2	DRUM, CLUTCH DRIVEN ニユウリヨク ドラム	
57	FA3 – 8730 – 000		2	RING, CLUTCH ACTION クラツチ ケース	
58	FS3 – 2008 – 000		2	SPRING, TORSION ネジリ バネ	
59	FA3 – 8729 – 000		2	DRUM, CLUTCH DRIVING クラツチ ドラム	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z41 – 60	FS3 – 0023 – 000		2	GEAR, 27T 27T ギア	
61	FA5 – 2864 – 020		2	RETAINING, RING トメワ	
62	FA5 – 2857 – 000		2	SHAFT ブンリ ローラ カウンタ ジク	
63	FA5 – 2866 – 000		2	SHAFT 1, SEPARATION ROLLER ブンリ ローラ ジク 1	
64	FA5 – 2921 – 020		2	GUIDE コネクタ ガイド	
65	FA9 – 2760 – 000		2	ROLLER, SEPARATION ブンリ ローラ	
66	FF2 – 0088 – 000		1	PLATE, SEP.ROLLER, FRONT,UPPER ウエ ブンリ ジク シバン (マエ)	
67	FA5 – 2869 – 000		1	PLATE,RELEASE,SEP.ROLLER,UPPER ブンリ ローラ カイジヨ バン (ウエ)	
68	FS3 – 2012 – 000		2	SPRING, TENSION ヒツパリ バネ	
69	FA5 – 2819 – 030		1	BASE, CASSETTE HOLDER, MIDDLE ステー (ナカ)	
70	FA5 – 2878 – 000		2	PLATE, LIFTING カアツ バン	
71	FA5 – 2877 – 000		2	SHAFT カアツ ジク	
72	FS2 – 1008 – 000		2	BUSHING ブッシング	
73	FA5 – 2837 – 000		1	GUIDE, ENTRY, UPPER シンニユウ ガイド (ウエ)	
74	FA5 – 2880 – 000		2	GEAR, SECTOR オウギ ガタ ギア	
75	FA5 – 2924 – 000		2	PIN,DOWEL ヘイコウ ピン	
76	FA5 – 2879 – 000		2	PLATE, RELEASE, LIFTING カアツ カイジヨ バン	
77	FA9 – 2610 – 000		2	SPRING ヒツパリ バネ	
78	FS1 – 2707 – 000		2	SPRING, TENSION ヒツパリ バネ	
79	FA9 – 2609 – 000		2	SPRING,TENSION ヒツパリ バネ	
80	FH7 – 1584 – 000		2	MOTOR, GEARD, DC24V DC ギヤードモータ	
81	FA5 – 2862 – 000		1	ARM,PICK – UP ROLLER, LOWER REAR キユウシ ローラ アーム (シタ ウシロ)	
82	FA5 – 2860 – 000		1	GUIDE, PAPER SENSING, LOWER カミ ケンチ ガイド (シタ)	
83	FA5 – 2861 – 000		1	ARM,PICK – UP ROLLER,LOWER FRONT キユウシ ローラ アーム (シタ マエ)	
84	FA5 – 2858 – 000		1	PLATE, SEP.ROLLER, REAR, LOWER シタ ブンリ ジク シバン (ウシロ)	
85	FF2 – 0089 – 000		1	PLATE, SEP.ROLLER, FRONT,LOWER シタ ブンリ ジク シバン (マエ)	
86	FA5 – 2870 – 000		1	PLATE,RELEASE,SEP.ROLLER,LOWER ブンリ ローラ カイジヨ バン (シタ)	
87	FA5 – 2820 – 020		1	BASE, CASSETTE HOLDER, LOWER ステー (シタ)	
88	FA5 – 2838 – 020		1	GUIDE, ENTRY, LOWER シンニユウ ガイド (シタ)	
89	FA5 – 3496 – 000		1	COVER, PCB PCB カバー	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z41 – 90	FA5 – 3494 – 000		1	PLATE, BOTTOM ソコ イタ	
91	VT2 – 0006 – 004		8	SUPPORT, PCB ロッキング サポート	
92	FH6 – 3201 – 000		1	MOTOR DRIVER PCB UNIT モータ ドライバ キバン	
93	WT2 – 0400 – 000		3	WIRING HOLDER ソクセン ホルダ	
94	FA5 – 2931 – 000		2	PAD パツド	
95	FA5 – 2928 – 000		1	ARM, RELEASE, LOWER, REAR オク カイジヨ アーム(シタ)	
96	FA5 – 2927 – 000		1	ARM, RELEASE, UPPER, REAR オク カイジヨ アーム(ウエ)	
97	FG2 – 4004 – 000		1	INTERFACE CABLE インター フェイス ケーブル	
97A	FC1 – 3322 – 000		1	PLATE, CABLE ソクセン カバー	
98	FF9 – 1003 – 000		2	ROLLER A, 1 A ローラ (1)	
98A	FA5 – 2854 – 020		1	ROLLER, PICK – UP, RUBBER キユウシ ローラ ゴム	
99	FF9 – 1113 – 000		2	ROLLER, PICK – UP, REAR, SILVER キユウシ ローラ(ウシロ)(ギン)	
99A	FA5 – 2854 – 020		1	ROLLER, PICK – UP, RUBBER キユウシ ローラ ゴム	

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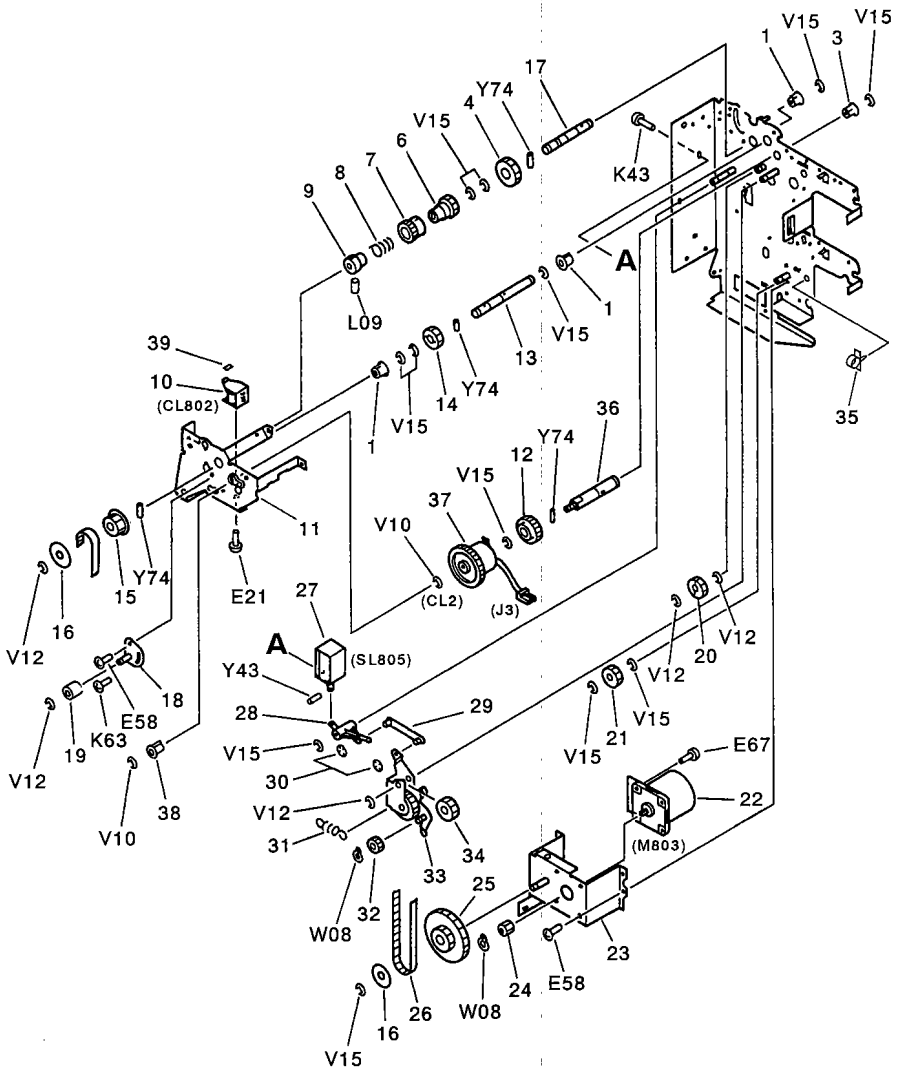
FIGURE Z42 PAPER PICK-UP ASSEMBLY 3
給紙部 3



NOTE: The assembly comes with all the parts shown in Figures Z40, Z41 and Z42.

注 : このユニットは、 Figure Z40, Z41 と Z42 の全てのパーツで構成されています。

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z42 –	FG2 – 4006 – 090		1	PAPER PICK – UP ASSEMBLY キュウシ ブ	SEE NOTE
1	FS1 – 1202 – 000		4	BUSHING ブッシング	
3	FS1 – 1449 – 000		1	BUSHING ブッシング	
4	FS3 – 0040 – 000		1	GEAR, 29T 29T ギア	
6	FS3 – 0078 – 000		1	GEAR, 24T 24T ギア	
7	FA3 – 8987 – 000		1	RING, RATCHET クラツチ セイギヨ カン	
8	FS1 – 2651 – 000		1	SPRING, TORSION ネジリ バネ	
9	FA2 – 5606 – 000		1	DRUM, CLUTCH DRIVEN バネウケ カナグ	
10	FH7 – 5154 – 000		1	SOLENOID, DC24V ソレノイド	
11	FA5 – 3497 – 000		1	MOUNT, SHAFT, UPPER クドウ ウワ イタ	
12	FS2 – 0485 – 000		1	GEAR, 32T 32T ギア	
13	FA5 – 3441 – 000		1	SHAFT, DRIVE クドウ ジク	
14	FS2 – 0544 – 000		1	GEAR, 24T 24T ギア	
15	FS2 – 3007 – 000		1	PULLEY, 16T 16T プーリ	
16	FS2 – 6010 – 000		2	FLANGE, PULLEY フランジ	
17	FA5 – 3510 – 000		1	SHAFT, CLUTCH ダイ4 レジスト クラツチ ジク	
18	FF2 – 0438 – 000		1	PLATE, TENSION テンショナ バン	
19	FS2 – 6009 – 000		1	ROLLER, TENSION テンション コロ	
20	FS3 – 0101 – 000		1	GEAR, 26T 26T ギア	
21	FS3 – 0080 – 000		1	GEAR, 27T 27T ギア	
22	FH7 – 1589 – 000		1	MOTOR, DC24V DC モータ	
23	FF2 – 0437 – 000		1	MOUNT, MOTOR モータ ダイ	
24	FS3 – 0104 – 000		1	GEAR, 18T 18T ギア	
25	FS2 – 3006 – 000		1	PULLEY/GEAR, 16T/75T 16T/75T プーリ/ギア	
26	XF9 – 0215 – 000		1	BELT ベルト	
27	FH7 – 5264 – 000		1	SOLENOID, DC24V ソレノイド	
28	FA5 – 3504 – 000		1	ARM キリカエ アーム	
29	FA5 – 2909 – 000		1	ARM キリカエ ヨウドウ バン	
30	XD9 – 0037 – 000		2	RING, SE SE リング	
31	FS3 – 2013 – 000		1	SPRING, TENSION ヒツパリ バネ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z42 – 32	FS3 – 0032 – 000		1	GEAR, 15T 15T ギア	
33	FF2 – 0091 – 000		1	GEAR UNIT, 26T キリカエ ヨウドウ バン	
34	FS3 – 0030 – 000		1	GEAR, 22T 22T ギア	
35	WT2 – 0400 – 000		7	WIRING HOLDER ソクセン ホルダ	
36	FA5 – 3515 – 000		1	SHAFT, CLUTCH クラッチ ジク	
37	FH7 – 5108 – 000		1	CLUTCH, ELECTROMAGNETIC デンジ クラッチ	
38	FS1 – 1446 – 000		1	BUSHING ブッシング	

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FIGURE Z90 CONTROLLER PCB ASSEMBLY
コントローラ基板

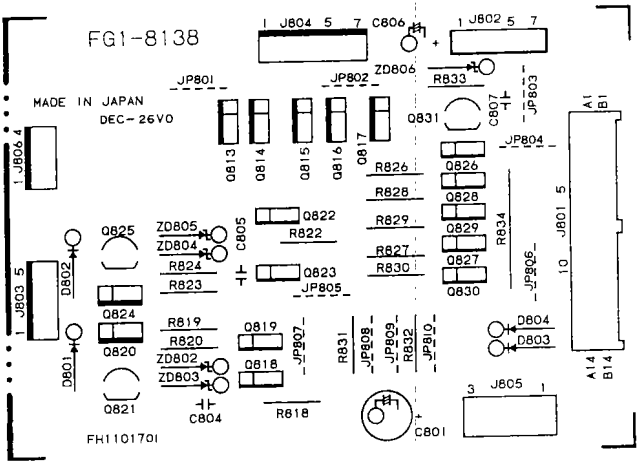

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z90 –	FG1 – 8138 – 000		1	CONTROLLER PCB ASSEMBLY コントローラ キバン	NEXT FIGURE Z41
C801	VC1 – 2351 – 107		1	ELECT.CAPACITOR, 100UF, 35V コンデンサ	
C804	VC4 – 4504 – 103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C805	VC4 – 4504 – 103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
C806	VC1 – 2351 – 106		1	CAPACITOR, 10UF, 35V コンデンサ	
C807	VC4 – 4504 – 103		1	CAPACITOR, CERAMIC, 0.01UF,50V コンデンサ	
D801	WA1 – 0474 – 000		1	DIODE, S5566B ダイオード	
D802	WA1 – 0474 – 000		1	DIODE, S5566B ダイオード	
D803	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
D804	X65 – 5032 – 000		1	DIODE, 1S1588 ダイオード	
J801	VS1 – 0379 – 028		1	CONNECTOR, 28P コネクタ	
J802	VS1 – 0831 – 007		1	PIN ASSEMBLY, 7P ピン アセンブリ	
J803	WS3 – 0422 – 000		1	PIN ASSEMBLY, 5P, W ピン アセンブリ	
J804	WS3 – 0424 – 000		1	PIN ASSEMBLY, 7P, W ピン アセンブリ	
J805	VS1 – 0025 – 003		1	PIN ASSEMBLY, 3P ピン アセンブリ	
J806	WS3 – 0421 – 000		1	PIN ASSEMBLY, 4P ピン アセンブリ	
Q813	WA2 – 0991 – 000		1	TRANSISTOR, 2SD1521 トランジスタ	
Q814	WA2 – 0991 – 000		1	TRANSISTOR, 2SD1521 トランジスタ	
Q815	WA2 – 0991 – 000		1	TRANSISTOR, 2SD1521 トランジスタ	
Q816	WA2 – 0991 – 000		1	TRANSISTOR, 2SD1521 トランジスタ	
Q817	WA2 – 0991 – 000		1	TRANSISTOR, 2SD1521 トランジスタ	
Q820	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q821	WA2 – 0285 – 000		1	TRANSISTOR, 2SD667AC トランジスタ	
Q824	WA2 – 0836 – 000		1	TRANSISTOR, 2SB1067 トランジスタ	
Q825	WA2 – 0285 – 000		1	TRANSISTOR, 2SD667AC トランジスタ	
Q826	WA2 – 0775 – 000		1	TRANSISTOR, RN2202 トランジスタ	
Q827	WA2 – 0775 – 000		1	TRANSISTOR, RN2202 トランジスタ	
Q828	WA2 – 0775 – 000		1	TRANSISTOR, RN2202 トランジスタ	
Q829	WA2 – 0775 – 000		1	TRANSISTOR, RN2202 トランジスタ	
Q830	WA2 – 0775 – 000		1	TRANSISTOR, RN2202 トランジスタ	

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z90 – Q831	WA2 – 0237 – 000		1	TRANSISTOR, 2SC2655Y トランジスタ	
R819	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R820	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R823	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R824	VR1 – 1141 – 472		1	RESISTOR, 4.7KOHM, 1/4W テイコウ	
R826	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R827	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R828	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R829	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R830	VR1 – 1141 – 103		1	RESISTOR, 10KOHM, 1/4W テイコウ	
R833	VR1 – 1141 – 102		1	RESISTOR, 1KOHM, 1/4W テイコウ	
R834	VR5 – 0820 – 101		1	RESISTOR, 100 OHM, 2W テイコウ	
ZD802	WA1 – 1037 – 000		1	DIODE, ZENER HZS15NB3 ツエナー ダイオード	
ZD803	WA1 – 1037 – 000		1	DIODE, ZENER HZS15NB3 ツエナー ダイオード	
ZD804	WA1 – 1037 – 000		1	DIODE, ZENER HZS15NB3 ツエナー ダイオード	
ZD805	WA1 – 1037 – 000		1	DIODE, ZENER HZS15NB3 ツエナー ダイオード	
ZD806	WA1 – 1070 – 000		1	DIODE, ZENER, HZS13NB2 ツエナー ダイオード	

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FIGURE ZB LIST OF CONNECTORS
コネクター覧

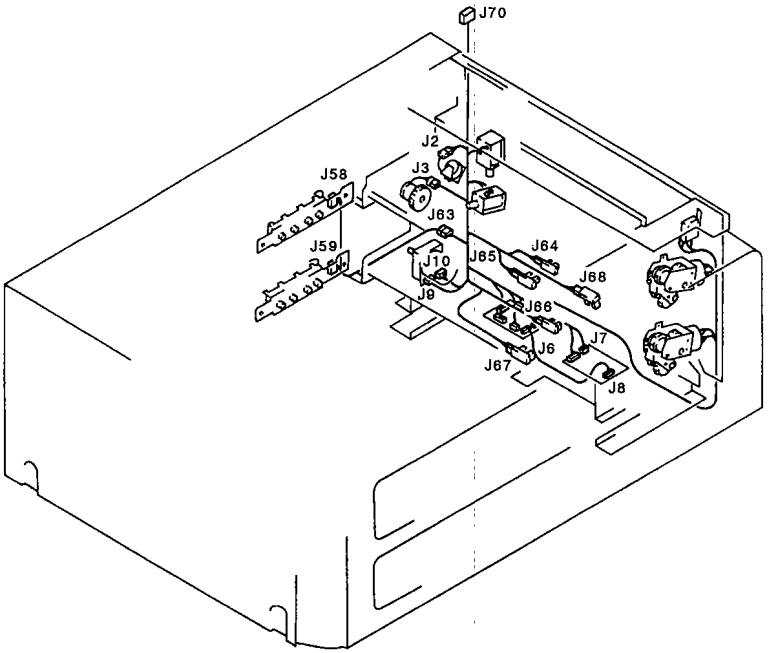

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z B –	NPN		RF	LIST OF CONNECTORS コネクタ イチラン	
J 2	NPN			NO.4 REGIST. ROLLER SOLENOID ダイ4 レジストローラ クラッチ ソレノイド	SL802
	VS1 – 0192 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
J 3	NPN			PAPER PICK – UP CLUTCH 2 キュウシ クラッチ2	CL801
	VS4 – 0003 – 002		1	CONNECTOR, 2P, FEMALE コネクタ (メス)	
	WS3 – 0885 – 000		2	PIN CONTACT, 20 – 30AWG ピン コンタクト	
J 6	PCB			MOTOR DRIVER モータ ドライバ	
	VS1 – 0440 – 009		1	CONNECTOR, 9P, FEMALE コネクタ (メス)	
J 7	PCB			MOTOR DRIVER モータ ドライバ	
	VS1 – 0440 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 8	PCB			MOTOR DRIVER モータ ドライバ	
	VS1 – 0440 – 004		1	CONNECTOR, 4P, FEMALE コネクタ (メス)	
J 9	NPN			PAPER PICK – UP MOTOR キュウシ モータ	M803
	VS1 – 0440 – 009		1	CONNECTOR, 9P, FEMALE コネクタ (メス)	
J 10	NPN			PAPER PICK – UP MOTOR キュウシ モータ	M803
	VS1 – 0440 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 58	NPN			CASSETTE 3 SIZE SWITCH カセット3 サイズ ケンチ スイッチ	
	VS1 – 0192 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J 59	NPN			CASSETTE 4 SIZE SWITCH カセット4 サイズ ケンチ スイッチ	
	VS1 – 0867 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
J 63	VS1 – 0192 – 006		1	CONNECTOR, 6P, FEMALE コネクタ (メス)	
	VS4 – 0003 – 006		1	CONNECTOR, 6P, MALE コネクタ (オス)	
	WS3 – 0885 – 000		6	PIN CONTACT, 20 – 30AWG ピン コンタクト	
J 64	NPN			CASSETTE 3 PAPER SENSOR カセット3 カミ センサ	Q850
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 65	NPN			CASSETTE 3 LIFTER POSIT.SENSOR カセット3 リフタ イチ センサ	Q851
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 66	NPN			CASSETTE 4 PAPER SENSOR カセット4 カミ センサ	Q852
	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 67	NPN			CASSETTE 4 LIFTER POSIT.SENSOR カセット4 リフタ イチ センサ	Q853

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FIGURE & KEY NO.	PART NUMBER	RANK	QTY	DESCRIPTION	SERIAL NUMBER / REMARKS
Z B – J 67	VS1 – 0842 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 68	NPN			PRE NO.4 REGIST. PAPER SENSOR ダイ4 レジ スト マエ センサ	Q854
	VS1 – 0192 – 003		1	CONNECTOR, 3P, FEMALE コネクタ (メス)	
J 70	– – – – – – – – – –			COPIER フクシャキ ホンタイ	
	FH2 – 5822 – 000		22	SOCKET CONTACT, 22 – 26AWG ソケツト コンタクト	
	FH2 – 5826 – 000		3	SOCKET CONTACT, 16 – 20AWG ソケツト コンタクト	
	FH2 – 5828 – 000		1	HOUSING, CONNECTOR コネクタ ハウジング	
J801	PCB			CONTROLLER コントローラ	
	VS1 – 0441 – 028		1	CONNECTOR, 28P コネクタ	
J802	PCB			CONTROLLER コントローラ	
	VS1 – 0842 – 007		1	CONNECTOR, 7P, FEMALE コネクタ (メス)	
J803	PCB			CONTROLLER コントローラ	
	VS1 – 0192 – 005		1	CONNECTOR, 5P, FEMALE コネクタ (メス)	
J804	PCB			CONTROLLER コントローラ	
	VS1 – 0192 – 007		1	CONNECTOR コネクタ	
J805	PCB			CONTROLLER コントローラ	
	VS1 – 0044 – 003		1	CONNECTOR, 3P コネクタ	
J806	PCB			CONTROLLER コントローラ	
	VS1 – 0192 – 004		1	CONNECTOR, 4P, FEMALE コネクタ (メス)	

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FA5 – 2979 – 000	810 – 20
FA5 – 2983 – 000	830 – 9
FA5 – 2984 – 000	830 – 10
FA5 – 2986 – 000	830 – 2
FA5 – 2987 – 000	830 – 11
FA5 – 2988 – 000	830 – 12
FA5 – 2995 – 000	280 – 5
FA5 – 2998 – 000	280 – 8
FA5 – 3008 – 000	810 – 3
FA5 – 3010 – 000	192 – 2
FA5 – 3011 – 000	192 – 3
FA5 – 3012 – 020	830 – 5
FA5 – 3014 – 000	810 – 10
FA5 – 3015 – 000	810 – 47A
FA5 – 3019 – 000	281 – 6
FA5 – 3020 – 000	281 – 7
FA5 – 3022 – 000	331 – 16
FA5 – 3028 – 000	350 – 15
FA5 – 3036 – 000	350 – 21
FA5 – 3037 – 000	350 – 22
FA5 – 3041 – 000	350 – 26
FA5 – 3042 – 000	350 – 27
FA5 – 3045 – 000	350 – 29
FA5 – 3046 – 000	350 – 31
FA5 – 3049 – 000	350 – 32
FA5 – 3054 – 000	350 – 53
FA5 – 3073 – 000	331 – 3
FA5 – 3075 – 020	331 – 4

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FA5 – 3076 – 000	331 – 5
FA5 – 3077 – 000	331 – 6
FA5 – 3078 – 000	331 – 7
FA5 – 3110 – 000	101 – 8
FA5 – 3113 – 000	102 – 33
FA5 – 3114 – 000	102 – 8
FA5 – 3119 – 000	103 – 9
FA5 – 3120 – 000	103 – 10
FA5 – 3121 – 000	103 – 11
FA5 – 3125 – 000	101 – 9
FA5 – 3132 – 000	102 – 31
FA5 – 3140 – 000	103 – 12
FA5 – 3147 – 000	102 – 9
FA5 – 3148 – 020	104 – 6
FA5 – 3149 – 020	104 – 7
FA5 – 3150 – 020	104 – 8
FA5 – 3151 – 020	104 – 9
FA5 – 3152 – 000	104 – 10
FA5 – 3153 – 000	104 – 11
FA5 – 3154 – 000	130 – 2
FA5 – 3155 – 000	130 – 3
FA5 – 3161 – 000	104 – 12
FA5 – 3181 – 000	104 – 20
	104 – 23
FA5 – 3182 – 000	104 – 21
FA5 – 3183 – 000	104 – 24
FA5 – 3184 – 000	104 – 13
FA5 – 3187 – 020	105 – 46
FA5 – 3190 – 000	104 – 14
FA5 – 3205 – 000	103 – 15
FA5 – 3210 – 000	100 – 13A
FA5 – 3211 – 000	210 – 40
FA5 – 3212 – 020	400 – 27
	401 – 12
FA5 – 3213 – 000	103 – 39
FA5 – 3214 – 020	103 – 41
FA5 – 3215 – 000	103 – 40
FA5 – 3216 – 000	103 – 42
FA5 – 3219 – 000	210 – 58
FA5 – 3220 – 000	210 – 47A
FA5 – 3221 – 000	210 – 57
FA5 – 3222 – 000	210 – 47B
FA5 – 3226 – 020	400 – 3
FA5 – 3228 – 000	210 – 4
FA5 – 3229 – 000	400 – 1
FA5 – 3230 – 000	210 – 11B
FA5 – 3236 – 000	104 – 15
FA5 – 3238 – 000	400 – 9
FA5 – 3244 – 000	102 – 49
FA5 – 3261 – 000	100 – 14
FA5 – 3263 – 000	100 – 15
FA5 – 3285 – 000	101 – 19
FA5 – 3288 – 000	313 – 93
FA5 – 3311 – 000	300 – 6
FA5 – 3312 – 000	300 – 7
FA5 – 3314 – 000	300 – 9
FA5 – 3322 – 000	300 – 14
FA5 – 3324 – 030	300 – 15
FA5 – 3325 – 000	300 – 16
FA5 – 3401 – 000	310 – 16
FA5 – 3402 – 000	310 – 17
FA5 – 3403 – 000	310 – 18
FA5 – 3404 – 000	310 – 19
FA5 – 3405 – 020	310 – 20
FA5 – 3406 – 000	310 – 21
FA5 – 3408 – 000	310 – 27
FA5 – 3409 – 000	311 – 7
FA5 – 7191 – 000	981 – 1
FA5 – 8884 – 000	100 – 24
FA6 – 2661 – 000	973 – 2
FA6 – 2664 – 000	972 – 2
FA6 – 3135 – 000	580 – 2A
FA6 – 3891 – 000	972 – 1
	973 – 1
FA6 – 3892 – 000	972 – 3
	973 – 3
FA6 – 4375 – 000	100 – 25
FA6 – 5515 – 000	910 – 3
FA6 – 6875 – 000	100 – 11
FA6 – 8837 – 020	100 – 27
FA7 – 0242 – 000	105 – 29
	105 – 40B
	110 – 10
	111 – 10
	112 – 10

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FA9 – 0032 – 000	400 – 26
FA9 – 0240 – 000	350 – 34
FA9 – 0451 – 000	350 – 35
FA9 – 1699 – 000	210 – 49
FA9 – 1768 – 000	100 – 12A
FA9 – 1781 – 000	350 – 51
FA9 – 1790 – 000	104 – 19A
FA9 – 1913 – 000	103 – 16
FA9 – 1935 – 000	640 – 14
FA9 – 1967 – 000	210 – 5
FA9 – 1968 – 000	210 – 53A
FA9 – 1971 – 000	210 – 50
FA9 – 1978 – 000	104 – 26
FA9 – 1979 – 000	104 – 27
FA9 – 1980 – 000	210 – 6
FA9 – 2048 – 000	570 – 3
FA9 – 2047 – 000	310 – 32
FA9 – 2087 – 000	210 – 7
FA9 – 2089 – 000	210 – 22
FA9 – 2091 – 000	210 – 8
FA9 – 2099 – 000	400 – 29
FA9 – 2105 – 000	100 – 32
FA9 – 2112 – 000	330 – 21
FA9 – 2120 – 000	311 – 26
FA9 – 2178 – 000	310 – 22
FA9 – 2184 – 000	313 – 29
FA9 – 2484 – 000	311 – 9
FA9 – 2577 – 000	910 – 4
FA9 – 2609 – 000	313 – 74
FA9 – 2610 – 000	313 – 72
FB1 – 5681 – 000	191 – 4
FB1 – 5743 – 000	400 – 23
FB1 – 5744 – 000	400 – 24
FB1 – 5745 – 000	400 – 10
FB1 – 5746 – 000	400 – 11
FB1 – 5747 – 000	400 – 30
FB1 – 5748 – 000	400 – 31
FB1 – 5749 – 000	400 – 16
	401 – 4
FB1 – 5754 – 000	500 – 2
FB1 – 5755 – 000	500 – 3
FB1 – 5757 – 000	102 – 20
FB1 – 5758 – 000	102 – 21
	330 – 32
FB1 – 5759 – 000	102 – 22
FB1 – 5760 – 000	102 – 51
FB1 – 5765 – 000	550 – 6
FB1 – 5767 – 000	550 – 8
FB1 – 5768 – 000	550 – 9
FB1 – 5769 – 000	550 – 10
FB1 – 5770 – 000	550 – 14A
FB1 – 5785 – 020	580 – 11
FB1 – 5794 – 000	192 – 5
FB1 – 5795 – 000	192 – 6
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FB1 – 5799 – 000	620 – 7
FB1 – 5800 – 000	620 – 8
FB1 – 5802 – 000	620 – 9
FB1 – 5803 – 000	620 – 10
FB1 – 5805 – 000	620 – 5B
FB1 – 5806 – 000	620 – 11
FB1 – 5807 – 000	620 – 12
FB1 – 5808 – 000	620 – 1A
FB1 – 5809 – 000	620 – 2A
FB1 – 5810 – 000	620 – 13
FB1 – 5811 – 000	620 – 14
FB1 – 5812 – 000	620 – 15
FB1 – 5813 – 000	620 – 16
FB1 – 5814 – 000	620 – 17
FB1 – 5815 – 000	620 – 18
FB1 – 5816 – 000	620 – 19
FB1 – 5817 – 000	620 – 20
FB1 – 5818 – 000	101 – 12
FB1 – 5819 – 000	101 – 13
FB1 – 5821 – 000	101 – 15A
FB1 – 5822 – 000	101 – 14
FB1 – 5824 – 000	640 – 15
FB1 – 5827 – 000	640 – 16
FB1 – 5829 – 000	640 – 3A
FB1 – 5831 – 000	640 – 17
FB1 – 5834 – 000	640 – 18
FB1 – 5837 – 000	640 – 19
FB1 – 5838 – 000	640 – 44
FB1 – 5839 – 000	640 – 1A
FB1 – 5840 – 000	640 – 1B

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FB1 – 5841 – 000	640 – 2A
FB1 – 5842 – 000	640 – 4A
FB1 – 5843 – 000	640 – 5A
FB1 – 5844 – 000	640 – 5B
FB1 – 5845 – 000	640 – 2B
FB1 – 5846 – 000	640 – 2C
FB1 – 5847 – 000	640 – 6A
FB1 – 5848 – 000	330 – 4
FB1 – 5850 – 000	330 – 18
FB1 – 5851 – 000	330 – 11
FB1 – 5852 – 000	330 – 12
FB1 – 5854 – 000	330 – 13
FB1 – 5856 – 000	330 – 20
FB1 – 5860 – 000	330 – 22
FB1 – 5861 – 000	330 – 33
FB1 – 5862 – 000	330 – 34
FB1 – 5872 – 020	580 – 4
FB1 – 5874 – 000	580 – 3A
FB1 – 5875 – 000	580 – 14
FB1 – 5876 – 000	580 – 13
FB1 – 5877 – 000	580 – 2B
FB1 – 5878 – 030	580 – 8
FB1 – 5883 – 000	333 – 1
FB1 – 5884 – 000	333 – 3
FB1 – 5888 – 000	280 – 4
FB1 – 5892 – 000	105 – 17
FB1 – 5893 – 000	130 – 11
FB1 – 5894 – 000	130 – 12
FB1 – 5895 – 000	130 – 13
FB1 – 5896 – 000	130 – 5
FB1 – 5897 – 000	130 – 6
FB1 – 5898 – 000	130 – 14
FB1 – 5899 – 000	130 – 7
FB1 – 5900 – 000	130 – 8
FB1 – 5901 – 000	130 – 9
FB1 – 5902 – 000	130 – 10
FB1 – 5904 – 000	264 – 2
FB1 – 5906 – 000	310 – 33
FB1 – 5909 – 000	310 – 34
FB1 – 5910 – 000	313 – 92
FB1 – 5911 – 000	310 – 12
FB1 – 5912 – 000	313 – 40
FB1 – 5915 – 000	311 – 1
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FB1 – 5917 – 000	310 – 4
FB1 – 5918 – 000	311 – 2
FB1 – 5921 – 000	810 – 8
FB1 – 5925 – 000	810 – 11
FB1 – 5926 – 000	810 – 21
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FB1 – 5928 – 000	810 – 16
FB1 – 5929 – 000	810 – 22
FB1 – 5930 – 000	810 – 23
FB1 – 5931 – 000	810 – 24
FB1 – 5932 – 000	810 – 15
FB1 – 5933 – 000	810 – 25
FB1 – 5934 – 000	810 – 26
FB1 – 5935 – 000	810 – 27
FB1 – 5936 – 000	810 – 28
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FB1 – 5940 – 000	810 – 31
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FB1 – 5943 – 000	810 – 12
FB1 – 5946 – 000	110 – 1
	111 – 1
	112 – 1
FB1 – 5947 – 000	810 – 9A
FB1 – 5951 – 000	350 – 13
FB1 – 5952 – 000	350 – 14
FB1 – 5954 – 000	350 – 17
FB1 – 5955 – 000	350 – 16
FB1 – 5956 – 000	350 – 18
FB1 – 5958 – 000	350 – 25
FB1 – 5959 – 000	350 – 30
FB1 – 5960 – 000	350 – 24
FB1 – 5961 – 000	350 – 2
FB1 – 5962 – 000	350 – 19
FB1 – 5963 – 000	350 – 20
FB1 – 5966 – 000	350 – 28
FB1 – 5967 – 000	910 – 9
FB1 – 5968 – 000	910 – 10
FB1 – 5969 – 000	910 – 11
FB1 – 5972 – 000	332 – 4
FB1 – 5974 – 020	332 – 5

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FB1-5975-030	332-6
FB1-5976-000	332-7
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FB1-5980-000	280-15
FB1-5981-000	332-8
FB1-5982-000	332-10
FB1-5985-000	331-12
FB1-5990-000	160-6
FB1-5991-000	105-20
FB1-5994-000	101-17A
FB1-5995-000	101-17B
FB1-5996-000	101-17C
FB1-5997-000	620-40
FB1-5999-000	191-1
FB1-6004-000	281-1
FB1-6005-000	281-3
FB1-6008-000	281-2
FB1-6008-000	105-21
FB1-6015-000	102-25
	330-24
FB1-6016-000	102-26
FB1-6018-000	102-23
	330-23
FB1-6019-000	102-24
FB1-6021-000	330-25
FB1-6023-000	191-5
FB1-6029-000	100-19
FB1-6033-000	103-45
FB1-6034-000	103-46
FB1-6037-000	251-7
FB1-6038-000	251-6
FB1-6039-000	251-5
FB1-6040-000	260-2
FB1-6041-000	260-1
FB1-6043-000	105-31
FB1-6044-000	105-32
FB1-6045-000	830-7
FB1-6046-000	830-8
FB1-6048-000	830-13
FB1-6050-000	640-21
FB1-6051-000	640-8
FB1-6052-000	102-41
FB1-6053-000	100-20
FB1-6054-000	251-21
FB1-6055-000	100-21
FB1-6057-000	251-3
FB1-6060-000	103-36
FB1-6066-000	100-3B
FB1-6067-000	100-3C
FB1-6070-000	105-8A
FB1-6073-000	282-1
FB1-6076-000	282-2
FB1-6077-000	282-3
FB1-6082-000	102-1
FB1-6083-000	102-2
FB1-6085-000	105-1
FB1-6086-000	102-3
FB1-6088-000	101-1
FB1-6090-000	102-46
FB1-6091-000	105-3
FB1-6092-020	103-1
FB1-6093-000	103-2
FB1-6094-000	103-3
FB1-6095-000	103-4
FB1-6096-000	102-42
FB1-6097-000	102-43
FB1-6098-000	105-4
FB1-6099-000	104-1
FB1-6100-000	104-2
FB1-6102-000	104-17A
FB1-6103-000	104-17B
FB1-6105-000	104-18A
FB1-6110-000	105-22
FB1-6111-000	105-40A
FB1-6113-000	830-24
FB1-6114-000	102-4
FB1-6115-000	620-21
FB1-6116-000	620-3A
FB1-6117-000	105-6
FB1-6118-000	101-2
FB1-6120-000	620-22
FB1-6121-000	103-5
FB1-6122-000	350-56
FB1-6124-000	105-7
FB1-6126-000	331-15

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FB1-6127-000	104-18B
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FB1-6131-000	620-5A
FB1-6133-000	910-1A
FB1-6134-000	620-5C
FB1-6135-000	104-3
FB1-6136-000	104-4
FB1-6137-000	312-20
FB1-6138-000	103-6
FB1-6139-000	100-1
FB1-6140-000	100-18
FB1-6141-000	100-16
FB1-6142-000	100-2
FB1-6144-000	103-7
FB1-6145-000	103-8
FB1-6146-000	101-16A
FB1-6147-000	101-4
FB1-6148-000	100-4
FB1-6149-000	100-5
FB1-6150-000	100-6
FB1-6151-000	300-10
FB1-6153-000	100-7
FB1-6156-000	105-8B
FB1-6160-000	980-1
FB1-6161-000	980-2
FB1-6162-000	980-3
FB1-6163-000	980-4
FB1-6165-000	914-3
FB1-6166-000	914-4
FB1-6167-000	103-30
FB1-6170-000	103-31
FB1-6171-000	103-32
FB1-6172-000	105-33
FB1-6173-000	101-16B
	103-49
FB1-6174-000	101-23
FB1-6176-000	101-24
FB1-6177-000	210-43
FB1-6180-000	103-13
FB1-6181-000	103-14
FB1-6186-000	401-13
FB1-6187-000	401-5
FB1-6381-000	210-1
FB1-6382-000	210-2
FB1-6383-000	192-1
FB1-6385-000	160-1
FB1-6386-000	160-2
FB1-6387-000	100-26
FB1-6389-000	400-8
FB1-6390-000	400-8
FB1-6391-000	102-7
FB1-6392-000	620-23
FB1-6393-000	620-24
FB1-6394-000	620-1B
FB1-6397-000	300-5
FB1-6398-000	300-8
FB1-6399-000	105-2
FB1-6400-000	105-9
FB1-6401-000	620-36
FB1-6403-000	101-22
FB1-6404-000	260-3
FB1-6405-000	400-12
FB1-6406-000	101-7
FB1-6407-000	620-1C
FB1-6408-000	620-1D
FB1-6409-000	620-1E
FB1-6411-000	620-5D
FB1-6412-000	620-5E
FB1-6413-000	620-5F
FB1-6414-000	620-37
FB1-6415-000	260-4
FB1-6416-000	400-4
FB1-6419-000	100-3A
FB1-6450-000	331-17
FB1-9302-000	130-15
FB1-9303-000	130-16
FB1-9304-000	130-17
FB1-9305-000	130-18
FB1-9306-000	130-19
FB1-9307-000	130-20
FB1-9308-000	130-21
FB1-9309-000	130-22
FB1-9310-000	130-23
FB1-9311-000	130-24
FB1-9312-000	130-25

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FB1-9313-000	130-26
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FB1-9316-000	130-28
FB1-9317-000	130-29
FB1-9318-000	130-30
FB1-9319-000	130-30
FB1-9320-000	130-30
FC1-2235-000	400-26
FC1-5125-000	100-30
FC1-5127-000	100-30
FC1-6548-000	002-1
FE9-0148-000	914-5
FF1-3654-000	980-J 4
FF1-5876-000	581-2
FF1-5898-000	620-4
FF1-5924-000	160-5
FF1-9445-020	970-1
FF2-0001-000	980-W 1
FF2-0073-000	210-47
FF2-0077-000	210-10
FF2-0078-000	210-11
FF2-0079-000	210-12
FF2-0082-050	311-29
FF2-0084-000	313-44
FF2-0085-000	311-20
FF2-0088-000	311-12
FF2-0087-000	312-5
FF2-0088-000	313-61
FF2-0089-000	313-77
FF2-0090-000	314-3
FF2-0091-000	314-35
FF2-0093-000	311-11
FF2-0094-030	325-1
FF2-0095-040	325-2
FF2-0108-000	350-3
FF2-0110-000	333-2
FF2-0116-000	500-4
FF2-0124-020	102-38
FF2-0125-030	570-1
FF2-0134-000	280-1
FF2-0144-000	250-2
FF2-0147-020	300-1
FF2-0148-020	300-1
FF2-0149-020	300-2
FF2-0158-000	263-2
FF2-0163-000	830-3
FF2-0166-050	300-3
FF2-0167-020	312-1
FF2-0169-020	581-1
FF2-0172-000	210-9
FF2-0175-020	810-47
FF2-0179-000	250-1
FF2-0198-000	102-18
FF2-0204-000	102-19
FF2-0207-050	103-29
FF2-0214-000	310-9
FF2-0219-000	210-13
FF2-0430-000	310-28
FF2-0607-000	400-2
FF2-1455-000	981-3
	981-J 1
FF2-2495-000	500-5
FF2-4535-000	330-26
FF2-4536-000	102-27
FF2-4537-000	810-33
FF2-4554-000	210-41
FF2-4556-000	325-13
FF2-4558-000	105-38
FF2-5884-000	105-40
FF2-5890-000	313-91
FF2-5892-000	103-47
FF2-5895-000	101-18
FF2-5896-000	105-23
FF2-5970-100	930-2
FF2-5971-100	930-2
FF2-5972-100	930-2
FF2-5973-100	930-2
FF2-6369-000	102-35
FF2-6370-000	105-24
FF2-6371-000	110-2
	111-2
	112-2
FF2-6645-000	400-28
FF2-6940-000	120-9
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FF2 – 7095 – 000	101 – 21
FF2 – 7096 – 000	350 – 33
FF5 – 0889 – 000	100 – 12
FF5 – 0890 – 000	100 – 12
FF5 – 0891 – 000	100 – 12
FF5 – 0892 – 000	100 – 12
FF5 – 0909 – 000	550 – 14
FF5 – 0920 – 000	620 – 1
FF5 – 0921 – 000	620 – 2
FF5 – 0922 – 000	101 – 15
FF5 – 0924 – 000	640 – 1
FF5 – 0925 – 000	640 – 2
FF5 – 0926 – 000	640 – 3
FF5 – 0927 – 000	640 – 4
FF5 – 0928 – 000	640 – 22
FF5 – 0929 – 000	640 – 5
FF5 – 0930 – 000	640 – 6
FF5 – 0931 – 000	330 – 5
FF5 – 0936 – 030	580 – 1
FF5 – 0938 – 020	580 – 2
FF5 – 0939 – 000	580 – 3
FF5 – 0940 – 000	580 – 19
FF5 – 0944 – 000	280 – 2
FF5 – 0945 – 000	280 – 14
FF5 – 0947 – 000	810 – 9
FF5 – 0949 – 000	284 – 1
FF5 – 0951 – 000	311 – 30
FF5 – 0952 – 000	310 – 35
FF5 – 0955 – 000	810 – 1
FF5 – 0956 – 000	810 – 2
FF5 – 0962 – 000	350 – 1
FF5 – 0963 – 000	282 – 4
FF5 – 0964 – 000	350 – 23
FF5 – 0965 – 000	332 – 1
FF5 – 0966 – 000	332 – 2
FF5 – 0967 – 000	331 – 2
FF5 – 0968 – 000	331 – 1
FF5 – 0972 – 000	100 – 3
FF5 – 0976 – 030	102 – 28
FF5 – 0980 – 000	251 – 2
FF5 – 0981 – 000	251 – 1
FF5 – 0984 – 000	401 – 1
FF5 – 0985 – 000	830 – 1
FF5 – 0986 – 000	283 – 1
FF5 – 0990 – 000	640 – 23
FF5 – 1003 – 000	282 – 5
FF5 – 1004 – 000	282 – 6
FF5 – 1005 – 000	105 – 5
FF5 – 1006 – 000	102 – 12
FF5 – 1009 – 000	104 – 17
FF5 – 1010 – 000	104 – 18
FF5 – 1012 – 000	620 – 3
FF5 – 1014 – 000	102 – 13
FF5 – 1017 – 000	102 – 14
FF5 – 1018 – 000	102 – 15
FF5 – 1019 – 000	102 – 16
FF5 – 1025 – 000	102 – 17
FF5 – 1026 – 000	620 – 5
FF5 – 1027 – 000	930 – 1
FF5 – 1028 – 000	105 – 34
FF5 – 1029 – 000	910 – 1
FF5 – 1030 – 000	105 – 8
FF5 – 1035 – 000	100 – 13
FF5 – 1037 – 020	100 – 13
FF5 – 1038 – 000	400 – 5
FF9 – 0861 – 000	350 – 4
FF9 – 0974 – 000	332 – 11
FF9 – 0975 – 000	210 – 14
FF9 – 0982 – 000	350 – 49
FF9 – 0983 – 000	104 – 19
FF9 – 0998 – 000	210 – 15
FF9 – 1003 – 000	313 – 85
FF9 – 1058 – 000	210 – 42
FF9 – 1082 – 000	210 – 53
FF9 – 1091 – 020	104 – 28
FF9 – 1092 – 000	310 – 6
FF9 – 1093 – 050	313 – 43
FF9 – 1094 – 060	313 – 42
FF9 – 1113 – 000	313 – 86
FF9 – 1119 – 000	210 – 25
FG1 – 8040 – 040	570 –
FG1 – 8099 – 000	970 –

PART NUMBER	FIGURE & KEY NO.
FG2 – 0355 – 000	978 –
FG5 – 1194 – 000	550 –
FG5 – 1200 – 000	620 –
FG5 – 1202 – 000	640 –
FG5 – 1203 – 030	330 –
FG5 – 1204 – 060	580 –
FG5 – 1205 – 000	333 –
FG5 – 1206 – 000	280 –
FG5 – 1207 – 000	250 –
FG5 – 1210 – 110	310 –
	311 –
	312 –
	313 –
	314 –
FG5 – 1211 – 000	810 –
FG5 – 1212 – 000	810 –
FG5 – 1213 – 000	810 –
FG5 – 1219 – 000	350 –
FG5 – 1221 – 040	332 –
FG5 – 1222 – 000	331 –
FG5 – 1224 – 000	101 – 17
FG5 – 1235 – 000	251 –
FG5 – 1236 – 000	260 –
FG5 – 1238 – 000	282 –
FG5 – 1239 – 000	101 – 16
FG5 – 1242 – 080	930 –
FG5 – 1243 – 080	930 –
FG5 – 1246 – 080	930 –
FG5 – 1247 – 080	930 –
FG5 – 1248 – 000	130 –
FG5 – 1249 – 000	130 –
FG5 – 1250 – 000	130 –
FG5 – 1251 – 000	130 –
FG5 – 1254 – 030	972 –
FG5 – 1255 – 030	973 –
FG5 – 1263 – 050	980 –
FG5 – 1265 – 000	911 –
FG5 – 1266 – 000	914 –
FG5 – 1267 – 000	914 –
FG5 – 1273 – 000	830 –
FG5 – 1274 – 000	283 –
FG5 – 1341 – 000	325 –
FG5 – 1343 – 000	101 – 17
FG5 – 1344 – 040	981 –
FG5 – 1348 – 000	160 –
FG5 – 1350 – 000	120 –
FG5 – 1351 – 000	325 –
FG5 – 1352 – 000	325 –
FG5 – 1353 – 000	910 –
FG5 – 1354 – 000	910 –
FG9 – 2764 – 000	103 – 43
FG9 – 2765 – 000	103 – 44
FH2 – 5006 – 000	100 – 10
FH2 – 5043 – 000	112 – 22
FH2 – 5704 – 000	110 – 3
FH2 – 5732 – 000	112 – 3
FH2 – 5733 – 000	112 – 3
FH2 – 5734 – 000	112 – 3
FH2 – 5737 – 000	980 – JW 2
FH2 – 5740 – 000	111 – 3
FH2 – 5820 – 000	B – J 67
FH2 – 5824 – 000	100 – 29
	105 – 10
FH2 – 5825 – 000	B – J 67
FH2 – 5829 – 000	B – J 67
FH2 – 5831 – 000	105 – 41
FH2 – 5843 – 000	400 – 17
FH2 – 5896 – 000	980 – JW 1
FH2 – 8091 – 000	105 – 15
FH2 – 8092 – 000	330 – 15
FH3 – 0515 – 000	981 – T 1
FH3 – 0532 – 000	980 – T 3
FH3 – 0575 – 000	980 – T 1
FH3 – 0576 – 000	980 – T 5
FH3 – 0578 – 000	914 – T 1
FH3 – 0579 – 000	914 – T 1
FH3 – 0591 – 030	981 – 4
	981 – T 2
FH3 – 0608 – 000	914 – L 2
FH3 – 0611 – 000	980 – T 4
FH3 – 0619 – 000	910 – T801
FH3 – 0620 – 000	910 – T801
FH3 – 0621 – 000	910 – L803
FH3 – 2222 – 000	101 – 20
FH3 – 5207 – 000	980 – T 2

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FH3 – 7119 – 020	105 – 39
FH3 – 7120 – 020	105 – 39
FH3 – 8017 – 000	980 – T 6
FH4 – 1163 – 000	930 – Q221
FH4 – 5347 – 000	930 – Q185
	930 – Q193
FH4 – 5354 – 000	930 – Q212
FH4 – 5410 – 000	980 – Q 2
FH4 – 9055 – 000	980 – R122
FH4 – 9056 – 000	980 – R121
FH4 – 9058 – 000	930 – CA101
FH4 – 9072 – 000	980 – R 91
FH4 – 9152 – 000	930 – RA101
	930 – RA102
	930 – RA103
	930 – RA104
	930 – RA105
	930 – RA106
	930 – RA107
	930 – RA111
	930 – RA112
	930 – RA113
	930 – RA115
	930 – RA116
FH6 – 0412 – 000	130 – 1
FH6 – 0413 – 000	130 – 1
FH6 – 0414 – 000	130 – 1
FH6 – 0415 – 000	130 – 1
FH6 – 3150 – 000	972 – LED751
	973 – LED751
FH6 – 3196 – 000	930 – X104
FH6 – 3199 – 000	105 – 14
FH6 – 3247 – 000	130 – 4
FH7 – 1584 – 000	313 – 75
FH7 – 1727 – 000	102 – 29
FH7 – 1759 – 000	250 – 4
FH7 – 1760 – 000	102 – 34
FH7 – 1762 – 000	620 – 38
FH7 – 1763 – 000	330 – 27
FH7 – 1764 – 000	330 – 28
FH7 – 1773 – 000	284 – 3
FH7 – 1774 – 000	314 – 28
FH7 – 1775 – 000	105 – 35
FH7 – 1776 – 000	350 – 36
FH7 – 1777 – 000	105 – 18
FH7 – 1844 – 000	191 – 2
FH7 – 1868 – 000	192 – 4
FH7 – 3229 – 000	103 – 27
FH7 – 3232 – 000	102 – 11
FH7 – 3246 – 000	400 – 18
FH7 – 3247 – 000	400 – 18
FH7 – 4255 – 000	810 – 35
FH7 – 4256 – 000	810 – 35
FH7 – 4297 – 000	810 – 35
FH7 – 4300 – 000	102 – 47
FH7 – 5030 – 030	313 – 1
	314 – 29
FH7 – 5154 – 000	314 – 7
FH7 – 5155 – 000	310 – 7
FH7 – 5156 – 000	314 – 20
FH7 – 5240 – 000	281 – 5
FH7 – 5252 – 000	103 – 28
FH7 – 5342 – 000	310 – 36
FH7 – 6113 – 000	104 – 29
FH7 – 6152 – 000	101 – 17D
FH7 – 6162 – 000	101 – 18
FH7 – 7062 – 000	105 – 16
FH7 – 7081 – 000	310 – 29
FH7 – 7155 – 000	310 – 8
	312 – 6
	313 – 28
	325 – 6
	332 – 12
FH7 – 7156 – 000	810 – 36
FH7 – 7196 – 020	325 – 7
FH7 – 7221 – 000	210 – 27
FH7 – 7222 – 000	350 – 37
FH7 – 7224 – 000	325 – 7
FH7 – 7225 – 000	972 – PD751
	973 – PD751
FH7 – 7242 – 000	640 – 24
FH7 – 7267 – 000	810 – 37
FH7 – 7283 – 000	620 – 25
FH7 – 8558 – 000	914 – 1
FH7 – 9207 – 000	112 – 4

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PART NUMBER	FIGURE & KEY NO.
FH7 – 9217 – 000	110 – 4
	111 – 4
FN1 – 0235 – 000	970 – 2
FN1 – 4217 – 000	400 – 20
FN1 – 4219 – 000	210 – 28
FN1 – 4220 – 000	210 – 30
FN1 – 4221 – 000	210 – 31
FN1 – 4222 – 000	210 – 62
FN1 – 4223 – 020	210 – 63
FN1 – 4308 – 000	401 – 8
FS1 – 0219 – 000	810 – 36
FS1 – 0422 – 000	310 – 14
FS1 – 0542 – 000	331 – 8
FS1 – 0545 – 000	250 – 10
	263 – 5
FS1 – 0615 – 000	280 – 8
	810 – 39
FS1 – 0679 – 000	314 – 4
FS1 – 0708 – 000	620 – 26
FS1 – 1190 – 000	313 – 50
FS1 – 1202 – 000	103 – 17
	280 – 7
	330 – 16
FS1 – 1205 – 000	620 – 27
FS1 – 1206 – 000	310 – 43
	313 – 94
FS1 – 1237 – 000	350 – 38
FS1 – 1257 – 000	314 – 17
FS1 – 1378 – 000	251 – 9
FS1 – 1401 – 000	830 – 14
FS1 – 1446 – 000	314 – 21
FS1 – 1447 – 000	500 – 7
FS1 – 1448 – 000	263 – 6
	282 – 7
	314 – 10
	830 – 15
FS1 – 1457 – 000	830 – 16
FS1 – 1462 – 000	102 – 10
	282 – 11
	310 – 11
	312 – 14
	314 – 9
	330 – 17
	331 – 9
	350 – 39
FS1 – 1465 – 000	310 – 23
FS1 – 2707 – 000	313 – 73
FS1 – 2708 – 000	314 – 5
FS1 – 2709 – 000	105 – 25
FS1 – 2833 – 000	350 – 40
FS1 – 2834 – 000	350 – 41
FS1 – 2951 – 000	120 – 4
FS1 – 6183 – 020	581 – 1B
FS1 – 9002 – 000	210 – 32
	250 – 5
	263 – 7
FS1 – 9003 – 000	100 – 31
FS1 – 9004 – 000	105 – 26
	120 – 5
	331 – 10
FS1 – 9007 – 000	210 – 35
FS1 – 9051 – 000	120 – 6
FS1 – 9073 – 000	310 – 42
FS1 – 9076 – 000	310 – 26
	311 – 10
	331 – 11
FS1 – 9102 – 000	103 – 18
FS1 – 9168 – 000	210 – 36
FS1 – 9255 – 000	103 – 51
FS2 – 0177 – 000	250 – 6
FS2 – 0392 – 000	350 – 42
FS2 – 0439 – 000	332 – 13
FS2 – 0441 – 000	280 – 5
FS2 – 0445 – 000	282 – 8
FS2 – 0448 – 000	103 – 19
	312 – 19
FS2 – 0578 – 000	105 – 36
FS2 – 1001 – 000	103 – 20
FS2 – 1002 – 000	103 – 21
FS2 – 1003 – 000	312 – 18
FS2 – 1004 – 020	312 – 16
FS2 – 1005 – 000	313 – 24
FS2 – 1006 – 000	313 – 19
FS2 – 1007 – 000	313 – 47
FS2 – 1008 – 000	313 – 67

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FS2 – 1009 – 000	314 – 27
FS2 – 1010 – 000	332 – 14
FS2 – 1014 – 000	640 – 25
FS2 – 1015 – 000	103 – 22
FS2 – 1357 – 000	102 – 13C
FS2 – 2304 – 000	102 – 40
FS2 – 2310 – 000	350 – 46
FS2 – 2315 – 000	250 – 7
FS2 – 2325 – 000	830 – 17
FS2 – 2330 – 000	280 – 9
FS2 – 2345 – 000	830 – 18
FS2 – 2351 – 000	105 – 27
FS2 – 3003 – 000	313 – 26
FS2 – 3004 – 000	313 – 33
FS2 – 3011 – 000	250 – 8
FS2 – 3012 – 000	280 – 8
	263 – 8
FS2 – 6001 – 000	313 – 32
FS2 – 6002 – 000	325 – 8
FS2 – 6003 – 000	313 – 36
FS2 – 6005 – 000	280 – 9
FS2 – 6007 – 000	310 – 41
FS2 – 6016 – 000	210 – 39
FS2 – 6018 – 000	640 – 26
FS2 – 6019 – 000	640 – 27
FS2 – 6022 – 000	103 – 23
FS2 – 8062 – 000	500 – 8
FS2 – 8614 – 000	101 – 25
	251 – 22
	330 – 19
FS2 – 9002 – 000	104 – 30
FS3 – 0022 – 000	251 – 11
FS3 – 0023 – 000	313 – 56
FS3 – 0024 – 000	314 – 13
FS3 – 0025 – 000	314 – 12
FS3 – 0026 – 000	260 – 10
	312 – 15
	314 – 1
	810 – 40
FS3 – 0028 – 000	314 – 19
FS3 – 0029 – 000	313 – 18
FS3 – 0030 – 000	314 – 36
FS3 – 0031 – 000	314 – 25
FS3 – 0032 – 000	314 – 34
FS3 – 0039 – 000	260 – 11
FS3 – 0040 – 000	350 – 43
FS3 – 0041 – 000	640 – 28
FS3 – 0042 – 000	640 – 29
FS3 – 0043 – 000	640 – 30
FS3 – 0046 – 000	333 – 8
FS3 – 0048 – 000	350 – 44
FS3 – 0054 – 020	280 – 10
FS3 – 0062 – 000	251 – 12
FS3 – 0063 – 000	251 – 13
FS3 – 0064 – 000	251 – 14
FS3 – 0066 – 000	251 – 16
FS3 – 0068 – 000	251 – 18
FS3 – 0069 – 000	251 – 19
FS3 – 0070 – 000	251 – 20
FS3 – 0074 – 000	103 – 24
	280 – 11
	282 – 9
FS3 – 0076 – 000	310 – 24
FS3 – 0077 – 000	310 – 13
FS3 – 0081 – 000	830 – 19
FS3 – 0082 – 000	830 – 20
FS3 – 0083 – 000	830 – 4
FS3 – 0098 – 000	263 – 9
FS3 – 0101 – 000	313 – 46
	314 – 24
FS3 – 0812 – 000	102 – 30
	330 – 29
FS3 – 2008 – 000	313 – 54
FS3 – 2009 – 000	311 – 16
FS3 – 2010 – 000	314 – 15
FS3 – 2011 – 000	313 – 13
FS3 – 2012 – 000	313 – 63
FS3 – 2013 – 000	314 – 33
FS3 – 2014 – 000	311 – 22
FS3 – 2015 – 000	311 – 13
FS3 – 2016 – 000	325 – 9
FS3 – 2017 – 000	325 – 10
FS3 – 2018 – 000	103 – 25
FS3 – 2022 – 000	120 – 7
FS3 – 2024 – 000	251 – 8

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FS3 – 2029 – 000	330 – 1
FS3 – 2030 – 000	103 – 38
FS3 – 2031 – 000	310 – 25
FS3 – 2036 – 000	103 – 26
FS3 – 2037 – 000	103 – 43A
FS3 – 2044 – 000	104 – 31
FS3 – 2048 – 000	263 – 10
FS3 – 2051 – 000	300 – 11
FS3 – 2053 – 000	830 – 21
FS3 – 2062 – 000	350 – 48
FS3 – 2063 – 000	312 – 17
FS3 – 2068 – 000	810 – 41
FS3 – 2071 – 000	102 – 13B
FS3 – 2073 – 000	103 – 44A
FS3 – 2075 – 000	103 – 33
FS3 – 8377 – 000	105 – 11
	980 – 5
	981 – 2
FS4 – 8059 – 000	300 – 3A
FS5 – 0280 – 000	640 – 31
FS5 – 0281 – 000	640 – 32
FS5 – 0282 – 000	640 – 33
FS5 – 0283 – 000	640 – 34
FS5 – 0284 – 000	640 – 35
FS5 – 0287 – 000	310 – 37
FS5 – 0289 – 000	251 – 15
FS5 – 0297 – 000	640 – 36
FS5 – 0299 – 000	102 – 13D
FS5 – 0300 – 000	620 – 28
FS5 – 0302 – 000	101 – 5
FS5 – 0304 – 000	810 – 42
FS5 – 1005 – 000	830 – 22
FS5 – 1184 – 000	640 – 37
FS5 – 2252 – 000	620 – 29
FS5 – 2253 – 000	620 – 30
FS5 – 2254 – 000	620 – 31
FS5 – 2260 – 000	103 – 34
FS5 – 2261 – 000	101 – 17E
FS5 – 2262 – 000	280 – 12
FS5 – 2263 – 000	280 – 13
FS5 – 2264 – 000	282 – 10
FS5 – 2268 – 000	350 – 45
FS5 – 3155 – 000	310 – 38
FS5 – 3157 – 000	251 – 10
FS5 – 6150 – 000	310 – 40
FS5 – 6151 – 000	332 – 3
	810 – 43
FS5 – 8456 – 000	100 – 8
FS5 – 8457 – 000	100 – 8
FS5 – 8458 – 000	100 – 8
FS5 – 8459 – 000	100 – 8
FS5 – 8466 – 000	100 – 23
FS5 – 8473 – 000	300 – 13
FS5 – 8474 – 000	300 – 13
FS8 – 8186 – 000	100 – 12B
FS8 – 8187 – 000	100 – 12B
FS8 – 8188 – 000	100 – 12B
FS8 – 8189 – 000	100 – 12B
FS8 – 8190 – 000	100 – 28
FS8 – 8194 – 000	101 – 25
	251 – 22
	330 – 19
FS8 – 8666 – 000	300 – 12
FS8 – 8667 – 000	100 – 33
FS8 – 8668 – 000	100 – 22
FS8 – 8669 – 000	620 – 32
FS8 – 8670 – 000	101 – 16C
FY3 – 0030 – 000	550 – 11
	570 – 5
	580 – 17
FY3 – 0040 – 000	550 – 11
	570 – 5
	580 – 17
PCB	B – J 65
	B – J 79
	B – J 80
	B – J102
	B – J103
	B – J104
	B – J105
	B – J106
	B – J108
	B – J109
	B – J110
	B – J111

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PCB	B – J112
	B – J113
	B – J114
	B – J117
	B – J118
	B – J119
	B – J401
	B – J402
	B – J403
	B – J451
	B – J452
	B – J453
	B – J454
	B – J651
	B – J653
	B – J656
	B – J751A
	B – J751B
	B – J752B
	B – J752C
	B – J801
	B – J802
	B – J804
	B – J805
	B – J806
	B – J807
	B – J808
	B – J811
	B – J812
	B – J813
	B – J814
RH7 – 8035 – 000	914 – 2
RY1 – 1502 – 000	580 – 18
VC1 – 2101 – 106	930 – C177
	930 – C178
VC1 – 2101 – 226	930 – C113
	930 – C117
VC1 – 2101 – 337	930 – C108
	930 – C175
VC1 – 2161 – 107	930 – C110
VC1 – 2351 – 107	930 – C104
VC1 – 2501 – 107	930 – C106
	930 – C112
VC1 – 2501 – 335	970 – C803
VC1 – 2501 – 474	930 – C129
VC3 – 2501 – 103	914 – C 4
	914 – C 13
	914 – C 14
VC4 – 2502 – 100	930 – C164
	930 – C165
VC4 – 2502 – 150	930 – C160
	930 – C161
VC4 – 2502 – 330	930 – C130
	930 – C131
	930 – C144
	930 – C145
VC4 – 2502 – 391	914 – C 12
VC4 – 3503 – 101	930 – C115
	930 – C169
	980 – C 56
VC4 – 3503 – 102	930 – C101
	930 – C102
	930 – C107
	930 – C114
	930 – C125
	930 – C128
	930 – C132
	930 – C137
	930 – C146
	930 – C156
	930 – C158
	930 – C166
	930 – C174
	980 – C 4
	980 – C 11
VC4 – 3503 – 221	930 – C167
VC4 – 4504 – 102	980 – C 47
	980 – C 48
	980 – C 54
VC4 – 4504 – 103	980 – C 53
VC4 – 4504 – 473	980 – C 15
	980 – C 34
	980 – C 35
VC5 – 1040 – 102	981 – C 4
VC5 – 1040 – 103	981 – C 2
VC5 – 1040 – 103	981 – C 17
	981 – C 18
	981 – C 20
VC5 – 1040 – 104	981 – C 1
	981 – C 3
	981 – C 8
	981 – C 9
	981 – C 11
	981 – C 15
	981 – C 16
	981 – C 21
	981 – C 22
VC5 – 1890 – 104	970 – C601
	970 – C602
VC5 – 1940 – 220	930 – C141
	930 – C142
VC5 – 1940 – 330	972 – C751
	973 – C751
VC5 – 2810 – 153	980 – C 19
VC5 – 4100 – 101	981 – C 19
VC5 – 4400 – 475	914 – C 9
	914 – C 11
VC5 – 4530 – 104	980 – C 12
VC5 – 5980 – 102	981 – C 5
VC5 – 7010 – 104	980 – C 51
	980 – C 52
VC5 – 7560 – 475	910 – C810
VC5 – 8110 – 471	910 – C817
	910 – C818
VC6 – 0150 – 101	914 – C 7
	914 – C 8
VC6 – 0150 – 220	910 – C814
	910 – C815
VC6 – 0150 – 221	914 – C 8
VC6 – 0150 – 470	910 – C814
	910 – C815
VC6 – 0160 – 222	914 – C 6
VC6 – 0160 – 332	980 – C 29
VC6 – 0160 – 471	910 – C819
	910 – C824
VC6 – 1130 – 104	914 – C 10
VC6 – 1140 – 105	972 – C752
	973 – C752
VC6 – 1150 – 103	980 – C 6
	980 – C 62
VC6 – 1150 – 473	980 – C 61
VC6 – 1720 – 222	910 – C841
VC6 – 2560 – 102	910 – C801
	914 – C 1
VC6 – 2560 – 222	910 – C802
	914 – C 2
VC6 – 3310 – 107	981 – C 6
VC6 – 3310 – 337	981 – C 7
VC6 – 3760 – 476	981 – C 13
VC6 – 3810 – 223	910 – C806
VC6 – 3820 – 473	910 – C808
VC6 – 4760 – 104	980 – C 60
VC6 – 5910 – 476	930 – C136
VC7 – 1410 – 103	910 – C811
VC7 – 1410 – 221	910 – C837
VC7 – 1410 – 391	910 – C809
VC7 – 1410 – 472	910 – C838
VC7 – 1410 – 681	910 – C854
VC7 – 2040 – 476	980 – C 1
	980 – C 9
	980 – C 25
VC7 – 2090 – 102	910 – C820
	910 – C821
	910 – C825
	910 – C826
VC7 – 2090 – 471	914 – C 16
	914 – C 17
	914 – C 18
VC7 – 2090 – 472	914 – C 6
VC7 – 2750 – 476	980 – C 16
	980 – C 21
VC7 – 3450 – 391	980 – C 55
VC7 – 3450 – 471	980 – C 36
VC7 – 3460 – 108	914 – C 19
VC7 – 3470 – 128	914 – C 5
VC7 – 3480 – 397	914 – C 5
VC7 – 3570 – 156	914 – C 15
VC7 – 3800 – 102	980 – C 33
	980 – C 59
VC7 – 3920 – 827	910 – C804
VC7 – 3920 – 827	910 – C805
VC7 – 3930 – 227	910 – C804
	910 – C805
VC7 – 3960 – 567	910 – C822
	910 – C823
	910 – C827
	910 – C828
	910 – C836
	910 – C845
VC7 – 3980 – 186	910 – C816
VC7 – 4230 – 477	930 – C172
VC7 – 4900 – 105	981 – C 12
	981 – C 14
VC7 – 5130 – 103	910 – C803
	910 – C808
VC7 – 5130 – 104	910 – C807
	910 – C812
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	910 – C846
	910 – C847
	910 – C852
	910 – C853
VC7 – 5130 – 474	910 – C855
VC9 – 0947 – 000	980 – C 2
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	980 – C 43
	980 – C 44
	980 – C 45
	980 – C 57
	980 – C 58
VC9 – 1381 – 000	980 – C 17
VC9 – 1413 – 000	980 – C 8
VC9 – 1511 – 000	980 – C 40
	980 – C 46
VC9 – 1600 – 000	981 – C 10
VC9 – 5047 – 000	930 – C103
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	930 – C162
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	930 – C170

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VC9 – 5047 – 000	930 – C171
	930 – C176
	972 – C753
	972 – C754
	972 – C755
	972 – C756
	973 – C753
	973 – C754
	973 – C755
	973 – C756
VC9 – 5076 – 000	980 – C 10
	980 – C 49
	980 – C 50
VD5 – 0082 – 501	911 – FU452
VD5 – 0083 – 151	911 – FU454
VD5 – 0086 – 301	911 – FU455
VD5 – 0088 – 001	911 – FU451
	911 – FU453
VD5 – 0242 – 501	910 – FU802
VD5 – 0243 – 151	914 – F 1
VD5 – 0245 – 001	910 – FU801
VD7 – 0212 – 501	910 – FU802
VD7 – 0215 – 001	914 – F 1
VL5 – 0390 – 036	914 – L 1
VL5 – 0390 – 086	910 – L802
	914 – L 1
VL5 – 0740 – 223	930 – L102
VL7 – 0220 – 104	910 – L805
VL7 – 0310 – 103	910 – L804
VR1 – 1141 – 102	980 – R 10
	980 – R 11
	980 – R 18
	980 – R 37
	980 – R 38
VR1 – 1141 – 103	980 – R 23
	980 – R 30
	980 – R 42
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	980 – R130
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VR1 – 1141 – 104	980 – R 20
	980 – R 99
	980 – R100
	980 – R101
	980 – R118
	980 – R128
VR1 – 1141 – 105	980 – R 90
	980 – R147
VR1 – 1141 – 113	980 – R126
VR1 – 1141 – 154	980 – R140
VR1 – 1141 – 180	980 – R 5
VR1 – 1141 – 185	980 – R113
	980 – R114
	980 – R115
VR1 – 1141 – 202	980 – R110
	980 – R150
	981 – R 44
VR1 – 1141 – 203	980 – R102
	980 – R103
	980 – R116
	980 – R125
	980 – R145
VR1 – 1141 – 221	980 – R 4
VR1 – 1141 – 225	980 – R 29
	980 – R 65
VR1 – 1141 – 229	980 – R 45
	980 – R 53
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VR1 – 1141 – 243	981 – R 43
VR1 – 1141 – 332	980 – R 41
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VR1 – 1141 – 470	980 – R105
VR1 – 1141 – 471	980 – R 33
	980 – R 74
VR1 – 1141 – 472	980 – R 1
	980 – R 8
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	980 – R 15
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	980 – R 19
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	980 – R 46
	980 – R 64
	980 – R106
VR1 – 1141 – 474	980 – R 22
	980 – R 44
	980 – R 51
VR1 – 1141 – 479	980 – R 31
VR1 – 1141 – 515	980 – R 68
	980 – R 70
VR1 – 1141 – 562	980 – R 61
VR1 – 1141 – 681	981 – R 10
VR1 – 1141 – 752	980 – R109
VR2 – 8035 – 393	112 – 20
VR4 – 0044 – 103	930 – RA117
VR4 – 0084 – 103	930 – RA108
	930 – RA109
	930 – RA110
	930 – RA114
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	930 – RA127
VR5 – 0043 – 011	980 – R 39
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VR5 – 0981 – 001	981 – R 34
VR5 – 0981 – 303	981 – R 29
VR5 – 0982 – 002	981 – R 12
VR5 – 0983 – 242	981 – R 3
VR5 – 0985 – 761	981 – R 2
VR5 – 0989 – 531	981 – R 1
VR5 – 1010 – 100	910 – R844
VR5 – 1010 – 104	910 – R804
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VR5 – 2290 – 101	930 – R101
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	930 – R118
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VR5 – 2290 – 102	930 – R110
	930 – R113
	930 – R132
	930 – R238
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	930 – R254
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VR5 – 2290 – 103	930 – R104
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	972 – R754
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VR5 – 2290 – 104	930 – R202
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VR5 – 2290 – 105	930 – R258
VR5 – 2290 – 123	930 – R390
VR5 – 2290 – 202	930 – R119
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PART NUMBER	FIGURE & KEY NO.	PART NUMBER	FIGURE & KEY NO.	PART NUMBER	FIGURE & KEY NO.
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	930 – R298	VR5 – 2290 – 560	930 – R346		930 – R248
	930 – R307	VR5 – 2290 – 681	930 – R135		930 – R249
	930 – R309	VR5 – 2410 – 101	910 – R803	VR5 – 6290 – 151	930 – R301
	930 – R311	VR5 – 2511 – 004	980 – R 34		930 – R302
	930 – R313		980 – R 35		930 – R303
	930 – R314	VR5 – 2511 – 103	980 – R 97		930 – R304
	930 – R328	VR5 – 2513 – 324	980 – R 92		930 – R324
	930 – R329		980 – R 93		930 – R325
	930 – R333		980 – R 94		930 – R326
	930 – R334	VR5 – 3680 – 101	914 – R 26		930 – R327
	930 – R335		970 – R609	VR5 – 6290 – 390	930 – R316
	930 – R336	VR5 – 3680 – 102	914 – R 2		930 – R317
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	930 – R339		914 – R 12	VR5 – 6300 – 100	930 – R369
	930 – R357	VR5 – 3680 – 104	914 – R 14	VR5 – 6371 – 000	910 – R879
VR5 – 2290 – 203	930 – R273	VR5 – 3680 – 272	914 – R 23	VR5 – 6371 – 001	910 – R848
	930 – R296	VR5 – 3680 – 273	914 – R 15	VR5 – 6371 – 021	910 – R847
	930 – R319	VR5 – 3680 – 470	914 – R 25	VR5 – 6372 – 202	910 – R809
VR5 – 2290 – 221	930 – R349	VR5 – 3680 – 472	970 – R606		910 – R810
VR5 – 2290 – 223	930 – R114		970 – R607	VR5 – 6372 – 701	910 – R851
	930 – R175		970 – R608	VR5 – 6373 – 001	910 – R869
	930 – R176	VR5 – 4030 – 104	914 – R 17	VR5 – 6373 – 002	910 – R850
	930 – R293	VR5 – 4030 – 204	914 – R 17	VR5 – 6373 – 302	910 – R838
VR5 – 2290 – 332	930 – R323	VR5 – 4590 – 101	914 – R 20		910 – R839
VR5 – 2290 – 334	972 – R753	VR5 – 5510 – 102	910 – R802		910 – R859
	973 – R753		910 – R811	VR5 – 6373 – 600	910 – R812
VR5 – 2290 – 471	930 – R107		910 – R852		910 – R813
	930 – R243		910 – R856	VR5 – 6374 – 300	910 – R812
	930 – R244		910 – R870		910 – R813
	930 – R348		910 – R871	VR5 – 6375 – 109	910 – R814
	930 – R375	VR5 – 5510 – 103	910 – R807	VR5 – 6377 – 500	910 – R836
	930 – R376	VR5 – 5510 – 104	910 – R819		910 – R837
	930 – R377	VR5 – 5510 – 105	910 – R840	VR5 – 6378 – 452	910 – R849
VR5 – 2290 – 472	930 – R106		910 – R853	VR5 – 6411 – 004	970 – R603
	930 – R109		910 – R860	VR5 – 6411 – 022	930 – R365
	930 – R112	VR5 – 5510 – 122	910 – R872	VR5 – 6411 – 211	970 – R605
	930 – R116	VR5 – 5510 – 153	910 – R808	VR5 – 6411 – 240	914 – R 10
	930 – R117		910 – R824	VR5 – 6411 – 371	970 – R602
	930 – R129		910 – R854	VR5 – 6412 – 001	930 – R120
	930 – R130	VR5 – 5510 – 162	910 – R841		930 – R193
	930 – R167	VR5 – 5510 – 182	910 – R859		930 – R211
	930 – R168	VR5 – 5510 – 223	910 – R815		930 – R214
	930 – R178	VR5 – 5510 – 301	910 – R855		930 – R215
	930 – R199	VR5 – 5510 – 331	910 – R873		930 – R216
	930 – R201	VR5 – 5510 – 361	910 – R842		930 – R217
	930 – R206	VR5 – 5510 – 470	910 – R874	VR5 – 6412 – 202	914 – R 8
	930 – R207		910 – R875		914 – R 9
	930 – R213		910 – R876	VR5 – 6413 – 011	970 – R601
	930 – R218	VR5 – 5510 – 471	910 – R878	VR5 – 6413 – 831	930 – R364
	930 – R237	VR5 – 5510 – 562	910 – R843	VR5 – 6414 – 993	972 – R751
	930 – R240		910 – R877		973 – R751
	930 – R245	VR5 – 6020 – 109	981 – R 15	VR5 – 6415 – 100	972 – R752
	930 – R255		981 – R 19		973 – R752
	930 – R256	VR5 – 6020 – 180	910 – R827	VR5 – 6418 – 872	970 – R604
	930 – R257		910 – R828	VR5 – 6550 – 503	972 – VR751
	930 – R259		981 – R 20		973 – VR751
	930 – R281	VR5 – 6020 – 221	910 – R822	VR5 – 6630 – 680	910 – R830
	930 – R282		910 – R823		910 – R831
	930 – R283	VR5 – 6020 – 471	910 – R822	VR5 – 6870 – 100	914 – R 13
	930 – R284		910 – R823		980 – R 47
	930 – R285	VR5 – 6020 – 680	910 – R829		980 – R 54
	930 – R267	VR5 – 6030 – 204	914 – R 4		980 – R 55
	930 – R268	VR5 – 6030 – 330	910 – R826	VR5 – 6870 – 101	914 – R 11
	930 – R269	VR5 – 6290 – 101	930 – R205	VR5 – 6870 – 220	910 – R817
	930 – R274		930 – R208		910 – R818
	930 – R276		930 – R219	VR5 – 6870 – 330	914 – R 16
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	930 – R300		930 – R222	VR5 – 7960 – 223	914 – R 5
	930 – R308		930 – R223	VR5 – 7960 – 331	914 – R 6
	930 – R310		930 – R224	VR5 – 7960 – 473	914 – R 4
	930 – R312		930 – R225	VR5 – 7960 – 681	914 – R 24
	930 – R315		930 – R226	VR5 – 7960 – 823	914 – R 5
	930 – R331		930 – R227	VR5 – 8280 – 104	910 – R808
	930 – R343		930 – R228	VR5 – 8280 – 683	910 – R806
	930 – R353		930 – R229		910 – R820
	930 – R358		930 – R230	VR5 – 9161 – 303	930 – R347
	930 – R373		930 – R231	VR5 – 9161 – 609	930 – R321
	930 – R391		930 – R232	VR5 – 9162 – 262	930 – R115
	930 – R392		930 – R233		930 – R121
	930 – R394		930 – R234		930 – R143
VR5 – 2290 – 473	930 – R123		930 – R235		930 – R150
	930 – R330		930 – R236		930 – R151
	930 – R338		930 – R246		930 – R155

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VR5 – 9162 – 321	930 – R342
VR5 – 9162 – 492	930 – R185
VR5 – 9162 – 612	930 – R140
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	930 – R188
	930 – R190
VR5 – 9163 – 302	930 – R181
VR5 – 9163 – 602	930 – R196
	930 – R367
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VR5 – 9164 – 642	930 – R195
VR5 – 9164 – 992	930 – R158
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VR5 – 9166 – 651	930 – R340
VR5 – 9168 – 251	930 – R308
VR7 – 0550 – 101	914 – R 3
	914 – R 21
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VR7 – 0580 – 181	910 – R845
VR7 – 0580 – 390	910 – R816
VR7 – 0580 – 473	910 – R804
	910 – R805
VR7 – 0570 – 101	910 – R880
VR7 – 2000 – 100	910 – R801
	914 – R 1
VR7 – 2000 – 150	914 – R 1
VR7 – 2341 – 004	980 – R123
	980 – R129
VR7 – 2341 – 822	980 – R119
VR7 – 2342 – 051	980 – R 58
VR7 – 2342 – 052	980 – R 26
VR7 – 2342 – 371	980 – R 40
VR7 – 2343 – 092	980 – R 57
VR7 – 2343 – 323	980 – R 96
VR7 – 2343 – 832	980 – R 32
	980 – R 43
VR7 – 2344 – 421	980 – R 24
VR7 – 2720 – 150	910 – R801
VR9 – 5077 – 000	980 – R 6
VR9 – 5091 – 000	914 – R 18
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VR9 – 5099 – 000	910 – R821
VR9 – 5102 – 000	910 – R820
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VR9 – 5141 – 000	910 – R835
	910 – R846
VS1 – 0025 – 003	911 – J451A
VS1 – 0025 – 004	910 – J805
	914 – J102
	914 – J103
	930 – J106
VS1 – 0025 – 005	910 – J801
	911 – J453A
VS1 – 0025 – 006	911 – J452
VS1 – 0025 – 008	930 – J105
VS1 – 0026 – 002	914 – J101
	980 – J 2
VS1 – 0026 – 003	911 – J454
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VS1 – 0088 – 004	910 – J902
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VS1 – 0088 – 005	911 – J453B
VS1 – 0192 – 002	B – J 31

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VS1 – 0192 – 003	B – J 23
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VS1 – 0192 – 004	B – J 29B
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VS1 – 0192 – 005	B – J 53
VS1 – 0192 – 006	B – J 51
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VS1 – 0192 – 009	B – J851
VS1 – 0203 – 014	B – J113
VS1 – 0269 – 005	910 – J802
VS1 – 0447 – 014	930 – J113
VS1 – 0477 – 006	980 – SW 1
VS1 – 0582 – 006	B – J 46
VS1 – 0842 – 003	B – J 28
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	B – J 70
	B – J 71
	B – J 72
	B – J 73
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VS1 – 0842 – 006	B – J 36
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VS1 – 0842 – 008	B – J117
VS1 – 0842 – 009	B – J104A
VS1 – 0842 – 011	B – J108A
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VS1 – 0842 – 013	B – J103A
VS1 – 0842 – 014	B – J102A
	B – J109A
	B – J110A
	B – J114A
VS1 – 0852 – 003	B – J 92
VS1 – 0852 – 008	B – J104B
VS1 – 0852 – 011	B – J108B
	B – J111B
VS1 – 0852 – 013	B – J103B
VS1 – 0852 – 014	B – J102B
	B – J109B
	B – J110B
	B – J114B
VS1 – 0867 – 006	B – J 79
	B – J 80
VS1 – 1028 – 006	930 – J118
VS1 – 1028 – 008	930 – J117
VS1 – 1029 – 006	972 – J751
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VS1 – 5031 – 034	930 – J112
	930 – J119
VS1 – 5057 – 003	B – J 63
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VS1 – 5057 – 006	B – J 36
VS1 – 5137 – 007	930 – CP101
VS1 – 5137 – 011	930 – J121
VS1 – 5328 – 018	930 – J104
VS1 – 5328 – 022	930 – J108

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	930 – J114
VS1 – 5328 – 026	930 – J103
VS1 – 5328 – 028	930 – J102
	930 – J109
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VS1 – 5414 – 003	910 – J804
VS3 – 0044 – 002	B – J806
VS3 – 0044 – 003	B – J853
VS3 – 0044 – 004	B – J106
	B – J401
	B – J807
VS3 – 0044 – 005	B – J801
VS3 – 0044 – 006	B – J452
VS3 – 0044 – 007	B – J451
	B – J804
	B – J811
VS3 – 0044 – 008	B – J105
	B – J805
VS3 – 0044 – 010	B – J453
VS3 – 0045 – 009	B – J802
VS3 – 0053 – 002	B – J 9
	B – J 22
VS3 – 0108 – 003	B – J 60
VS3 – 5008 – 034	B – J112
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VS3 – 5009 – 003	B – J 69
VS4 – 0001 – 001	B – J 83
VS4 – 0001 – 002	B – J 5
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VS4 – 0002 – 002	B – J 5
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VS4 – 0003 – 003	B – J 23
VS4 – 0003 – 004	B – J 29
	B – J 29A
VS9 – 5007 – 018	B – J104H
VS9 – 5007 – 022	B – J108H
	B – J111H
VS9 – 5007 – 026	B – J103H
VS9 – 5007 – 028	B – J102H
	B – J109H
	B – J110H
	B – J114H
VT2 – 0001 – 004	101 – 26
	105 – 42
VT2 – 0001 – 008	105 – 37
VT2 – 0001 – 010	105 – 43
VT2 – 0001 – 012	105 – 45
VT2 – 0002 – 010	105 – 48
VV1 – 1188 – 100	981 – R 13
VV1 – 1188 – 101	981 – R 31
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VV1 – 1188 – 105	981 – R 39
VV1 – 1188 – 152	981 – R 4
VV1 – 1188 – 222	981 – R 26
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VV1 – 1188 – 303	981 – R 56
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VV1 – 1188 – 471	981 – R 11
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	981 – R 54
	981 – R 55
	981 – R 57
VV1 – 1188 – 473	981 – R 25
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VV1 – 1188 – 561	981 – R 37
	981 – R 38
VV1 – 1188 – 811	981 – R 17
	981 – R 18
	981 – R 24
WA1 – 0043 – 000	930 – D202
	930 – D203
WA1 – 0074 – 000	981 – ZD 3
WA1 – 0178 – 000	980 – D 1
	980 – D 4
	980 – D 5
	980 – D 6
	980 – D 9
	980 – D 18
	981 – D 1
	981 – D 2
	981 – D 3
	981 – D 5
	981 – D 11
WA1 – 0207 – 000	981 – ZD 2
WA1 – 0209 – 000	980 – ZD 3
WA1 – 0301 – 000	980 – D 2
	981 – D 8
	981 – D 9
WA1 – 0332 – 000	972 – D751
	972 – D752
	972 – D753
	973 – D751
	973 – D752
	973 – D753
WA1 – 0396 – 000	980 – D 3
	980 – D 7
	980 – D 10
	980 – D 20
WA1 – 0576 – 000	910 – ZD806
WA1 – 0672 – 000	980 – ZD 1
	980 – ZD 2
WA1 – 0729 – 000	914 – ZD 1
	914 – ZD 2
WA1 – 0887 – 000	910 – D806
	910 – D810
	910 – D814
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WA1 – 0887 – 000	930 – D135
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WA1 – 5183 – 000	914 – D 3
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FS2 – 9002 – 000	Z10 – 15
FS3 – 0023 – 000	Z41 – 60
FS3 – 0029 – 000	Z41 – 19
FS3 – 0030 – 000	Z42 – 34

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FS3 – 0032 – 000	Z42 – 32
FS3 – 0040 – 000	Z42 – 4
FS3 – 0078 – 000	Z40 – 27
FS3 – 0077 – 000	Z41 – 24
FS3 – 0078 – 000	Z42 – 6
FS3 – 0080 – 000	Z42 – 21
FS3 – 0101 – 000	Z41 – 50
	Z42 – 20
FS3 – 0104 – 000	Z42 – 24
FS3 – 2008 – 000	Z41 – 58
FS3 – 2011 – 000	Z41 – 13
FS3 – 2012 – 000	Z41 – 68
FS3 – 2013 – 000	Z42 – 31
FS3 – 2014 – 000	Z40 – 28
FS3 – 2015 – 000	Z40 – 10
FS3 – 2044 – 000	Z10 – 16
FS3 – 2048 – 000	Z40 – 23
FS4 – 8043 – 000	Z40 – 35
FS4 – 8044 – 020	Z40 – 36
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	Z B – J 7
	Z B – J 8
	Z B – J801
	Z B – J802
	Z B – J803
	Z B – J804
	Z B – J805
	Z B – J806
VC1 – 2351 – 106	Z90 – C806
VC1 – 2351 – 107	Z90 – C801
VC4 – 4504 – 103	Z90 – C804
	Z90 – C805
	Z90 – C807
VR1 – 1141 – 102	Z90 – R833
VR1 – 1141 – 103	Z90 – R826
	Z90 – R827
	Z90 – R828
	Z90 – R829
	Z90 – R830
VR1 – 1141 – 472	Z90 – R819
	Z90 – R820
	Z90 – R823
	Z90 – R824
VR5 – 0820 – 101	Z90 – R834
VS1 – 0025 – 003	Z90 – J805
VS1 – 0044 – 003	Z B – J805
VS1 – 0192 – 002	Z B – J 2
VS1 – 0192 – 003	Z B – J 68
VS1 – 0192 – 004	Z B – J806
VS1 – 0192 – 005	Z B – J803
VS1 – 0192 – 006	Z B – J 58
	Z B – J 63
VS1 – 0192 – 007	Z B – J804
VS1 – 0379 – 028	Z90 – J801
VS1 – 0440 – 003	Z B – J 7
	Z B – J 10
VS1 – 0440 – 004	Z B – J 8
VS1 – 0440 – 009	Z B – J 6
	Z B – J 9
VS1 – 0441 – 028	Z B – J801
VS1 – 0831 – 007	Z90 – J802
VS1 – 0842 – 003	Z B – J 64
	Z B – J 65
	Z B – J 66
	Z B – J 67
VS1 – 0842 – 007	Z B – J802
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VS4 – 0003 – 006	Z B – J 63
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	Z90 – D802
WA1 – 1037 – 000	Z90 – ZD802
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	Z90 – ZD804
	Z90 – ZD805
WA1 – 1070 – 000	Z90 – ZD806
WA2 – 0237 – 000	Z90 – Q831
WA2 – 0285 – 000	Z90 – Q821
	Z90 – Q825
WA2 – 0775 – 000	Z90 – Q826
	Z90 – Q827
	Z90 – Q828
	Z90 – Q829
	Z90 – Q830

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PART NUMBER	FIGURE & KEY NO.	PART NUMBER	FIGURE & KEY NO.	PART NUMBER	FIGURE & KEY NO.
WA2 – 0836 – 000	Z90 – Q820				
	Z90 – Q824				
WA2 – 0991 – 000	Z90 – Q813				
	Z90 – Q814				
	Z90 – Q815				
	Z90 – Q816				
	Z90 – Q817				
WC4 – 0134 – 000	Z40 – 31				
WS3 – 0421 – 000	Z90 – J806				
WS3 – 0422 – 000	Z90 – J803				
WS3 – 0424 – 000	Z90 – J804				
WS3 – 0885 – 000	Z B – J 3				
	Z B – J 63				
WT2 – 0400 – 000	Z41 – 93				
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